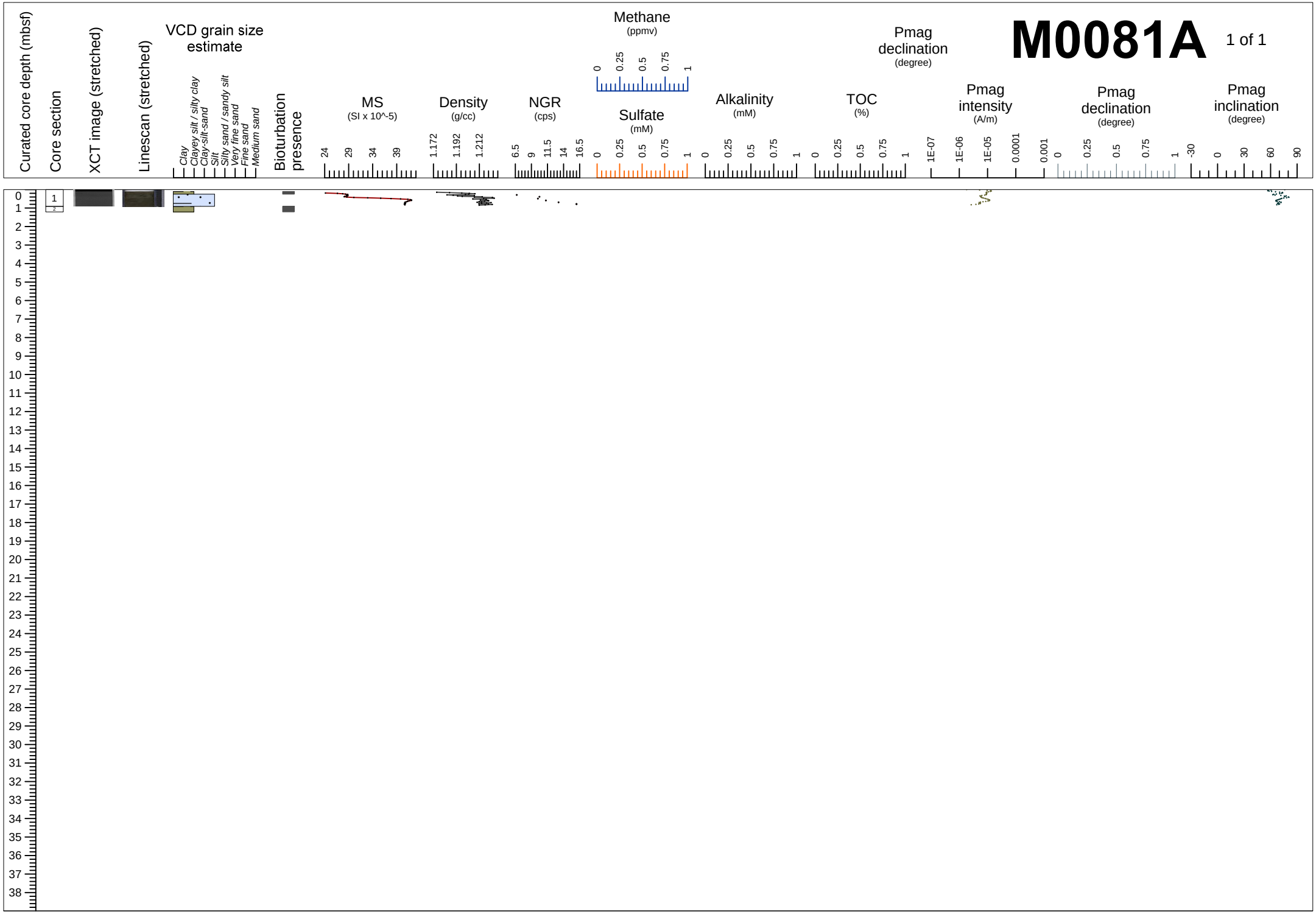
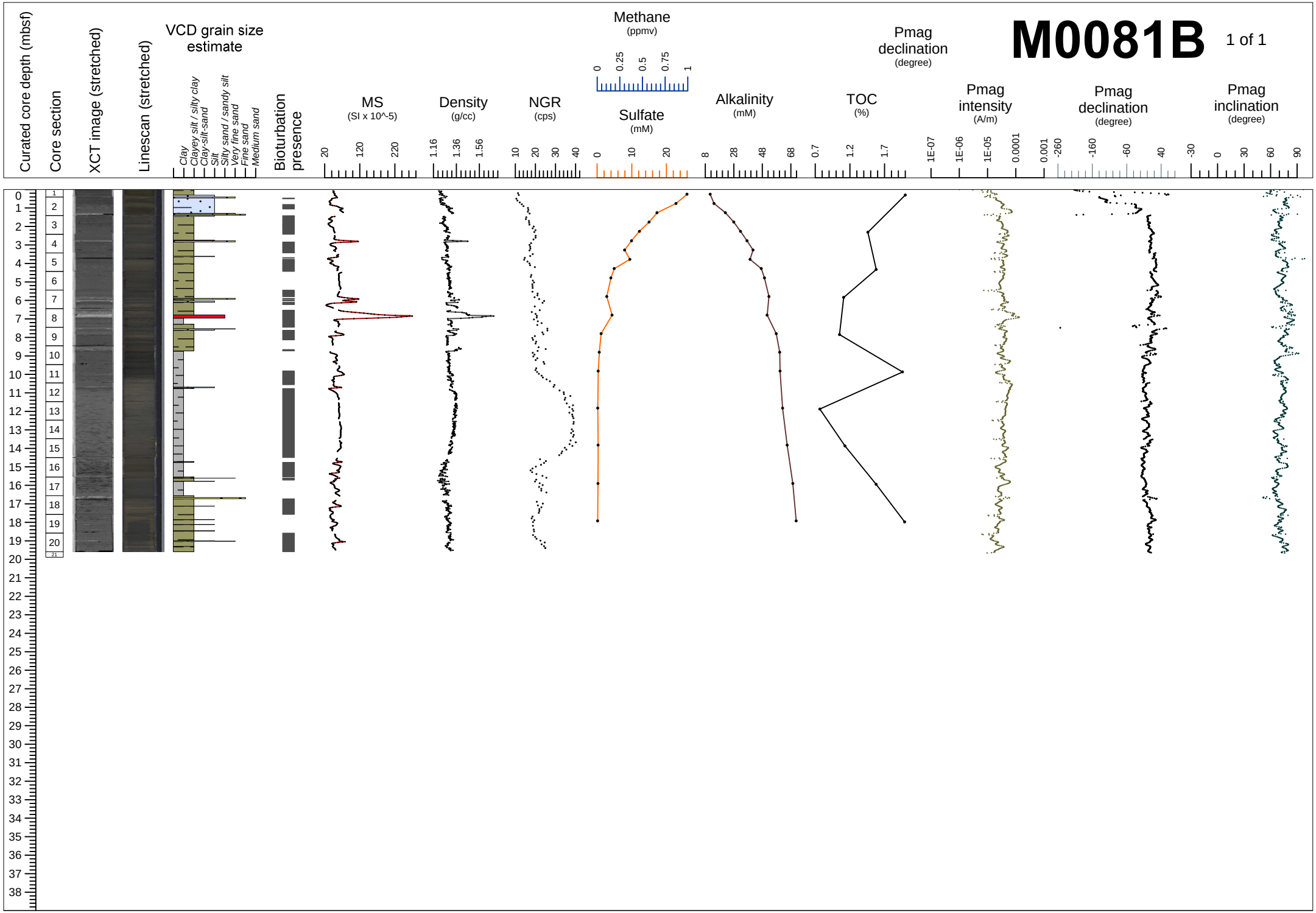
M0081A

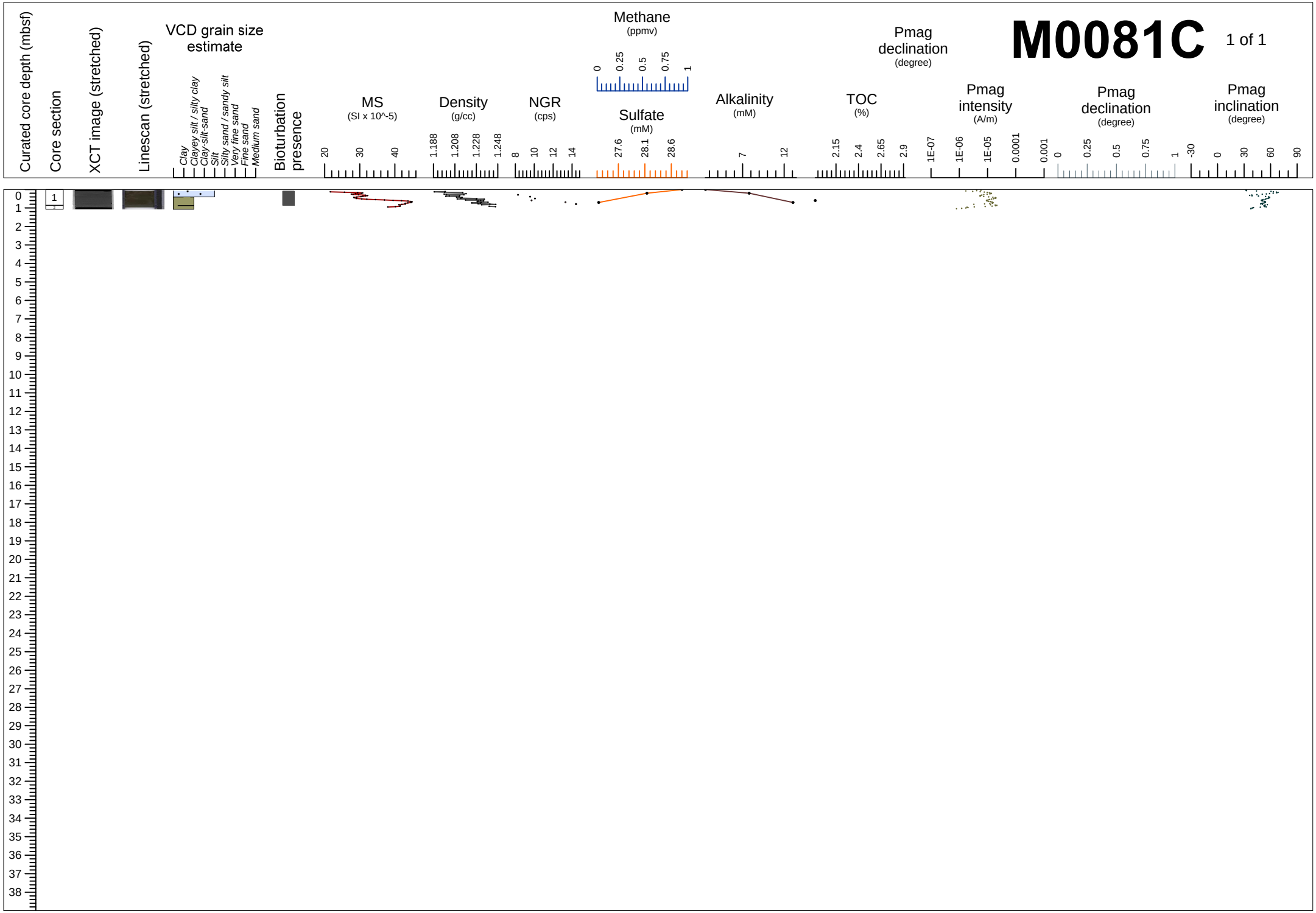

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS (SI x 10^-5)
24 29 34 39
Density (g/cc)
1.172 1.192 1.212
NGR (cps)
6.5 9 11.5 14 16.5
Methane (ppmv)
0 0.25 0.5 0.75 1
Sulfate (mM)
0 0.25 0.5 0.75 1
Alkalinity (mM)
0 0.25 0.5 0.75 1
TOC (%)
0 0.25 0.5 0.75 1
Pmag declination (degree)
Pmag intensity (A/m)
1E-07 1E-06 1E-05 0.0001 0.001
Pmag declination (degree)
0 0.25 0.5 0.75 1
Pmag inclination (degree)
-30 0 30 60 90
0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38

M0081B


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS (SI x 10^-5)
Density (g/cc)
NGR (cps)
Methane (ppmv)
Sulfate (mM)
Alkalinity (mM)
TOC (%)
Pmag declination (degree)
Pmag intensity (A/m)
Pmag declination (degree)
Pmag inclination (degree)

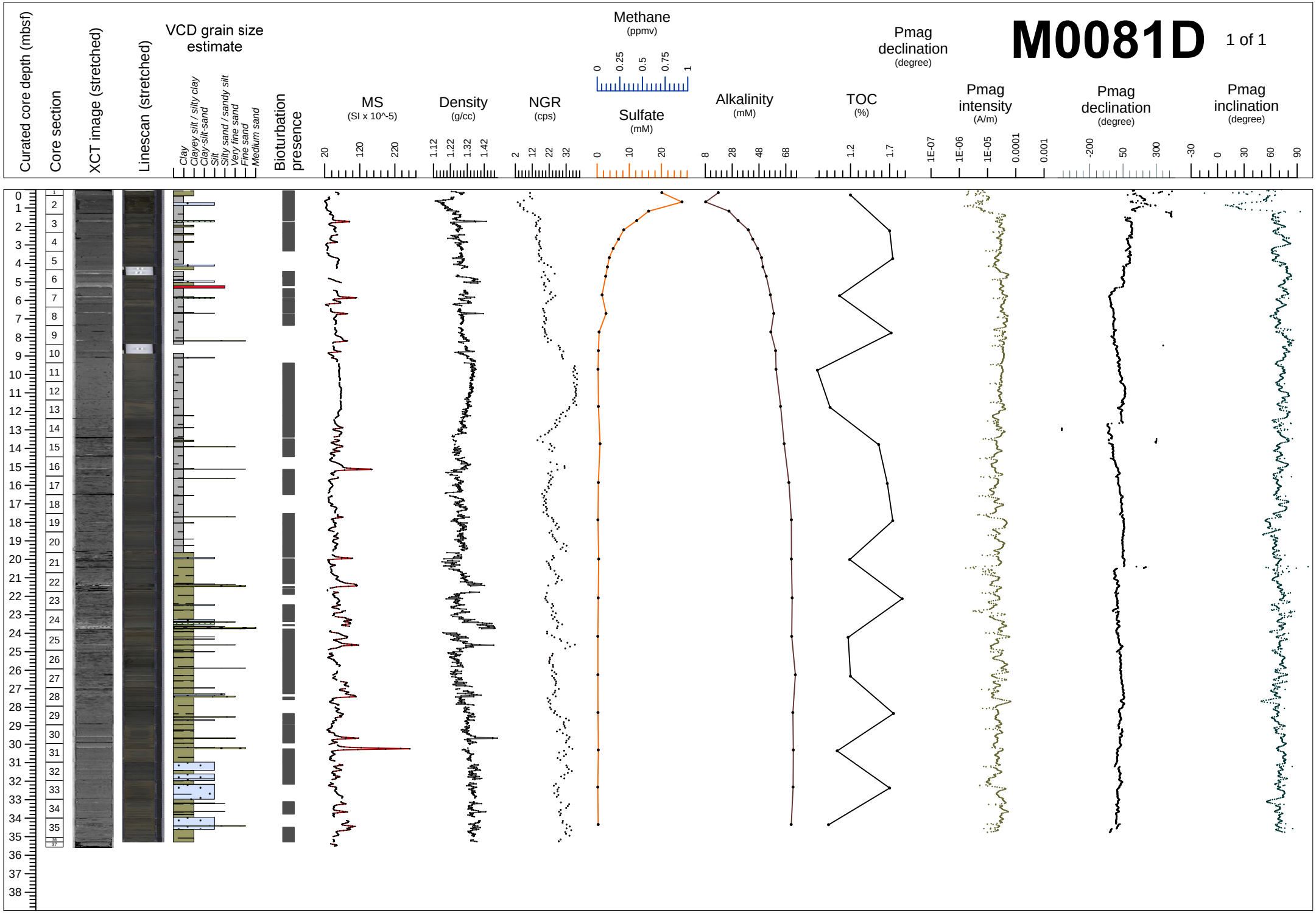
M0081C

1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS
(SI x 10^-5)
20
30
40
Density
(g/cc)
1.188
1.208
1.228
1.248
NGR
(cps)
8
10
12
14
Methane
(ppmv)
0
0.25
0.5
0.75
1
Sulfate
(mM)
27.6
28.1
28.6
Alkalinity
(mM)
7
12
TOC
(%)
2.15
2.4
2.65
2.9
Pmag declination
(degree)
1E-07
1E-06
1E-05
Pmag intensity
(A/m)
0.0001
0.001
Pmag declination
(degree)
0
0.25
0.5
0.75
1
Pmag inclination
(degree)
-30
0
30
60
90
1

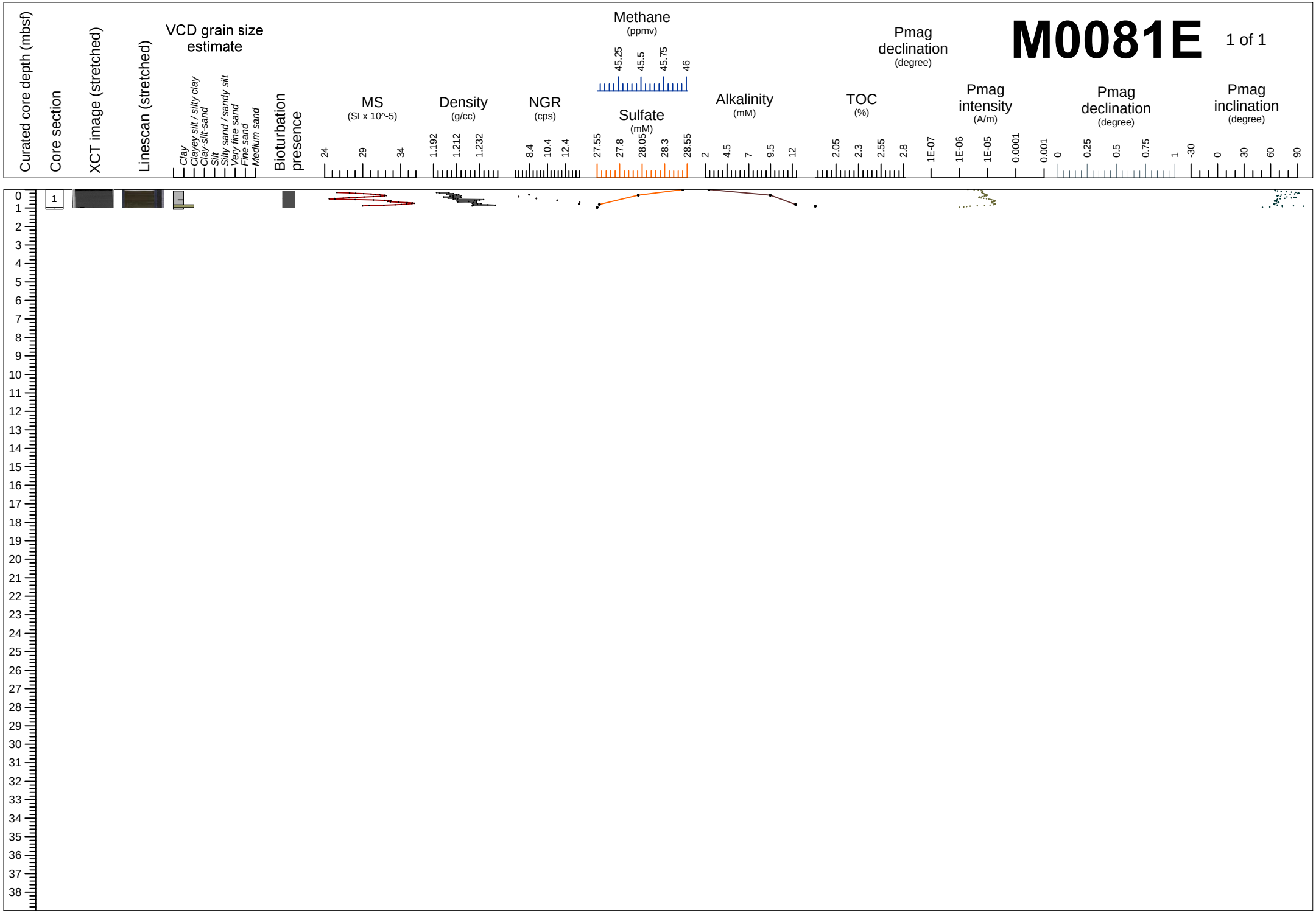
M0081D

1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS (SI x 10^-5)
Density (g/cc)
NGR (cps)
Methane (ppmv)
Sulfate (mM)
Alkalinity (mM)
TOC (%)
Pmag declination (degree)
Pmag intensity (A/m)
Pmag declination (degree)
Pmag inclination (degree)

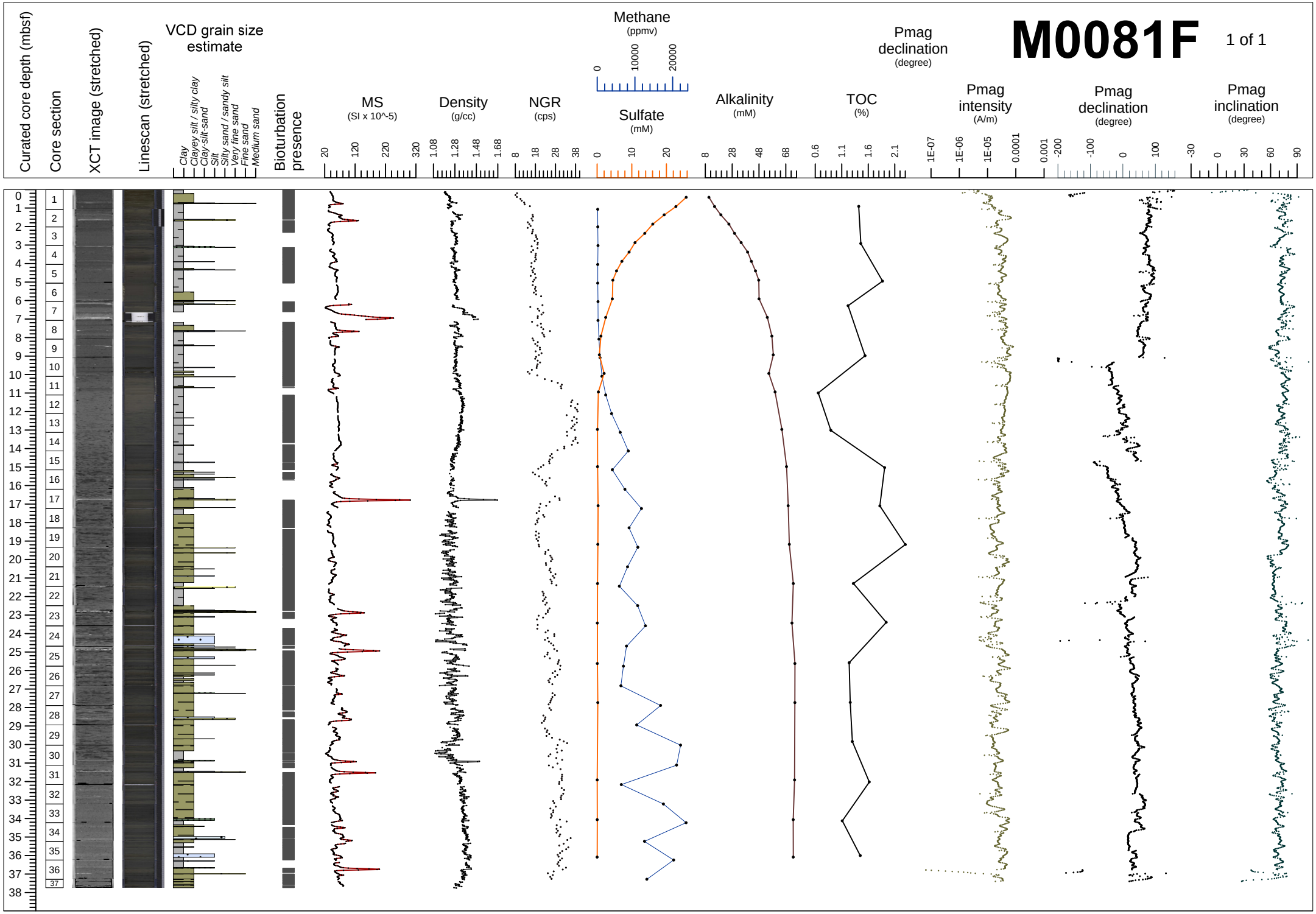
M0081E

1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS (SI x 10^-5)
24 29 34
Density (g/cc)
1.192 1.212 1.232
NGR (cps)
8.4 10.4 12.4
Methane (ppmv)
45.25 45.5 45.75 46
Sulfate (mM)
27.55 27.8 28.05 28.3 28.55
Alkalinity (mM)
2 4.5 7 9.5 12
TOC (%)
2.05 2.3 2.55 2.8
Pmag declination (degree)
Pmag intensity (A/m)
1E-07 1E-06 1E-05 0.0001 0.001
Pmag declination (degree)
0 0.25 0.5 0.75 1
Pmag inclination (degree)
-30 0 30 60 90
1

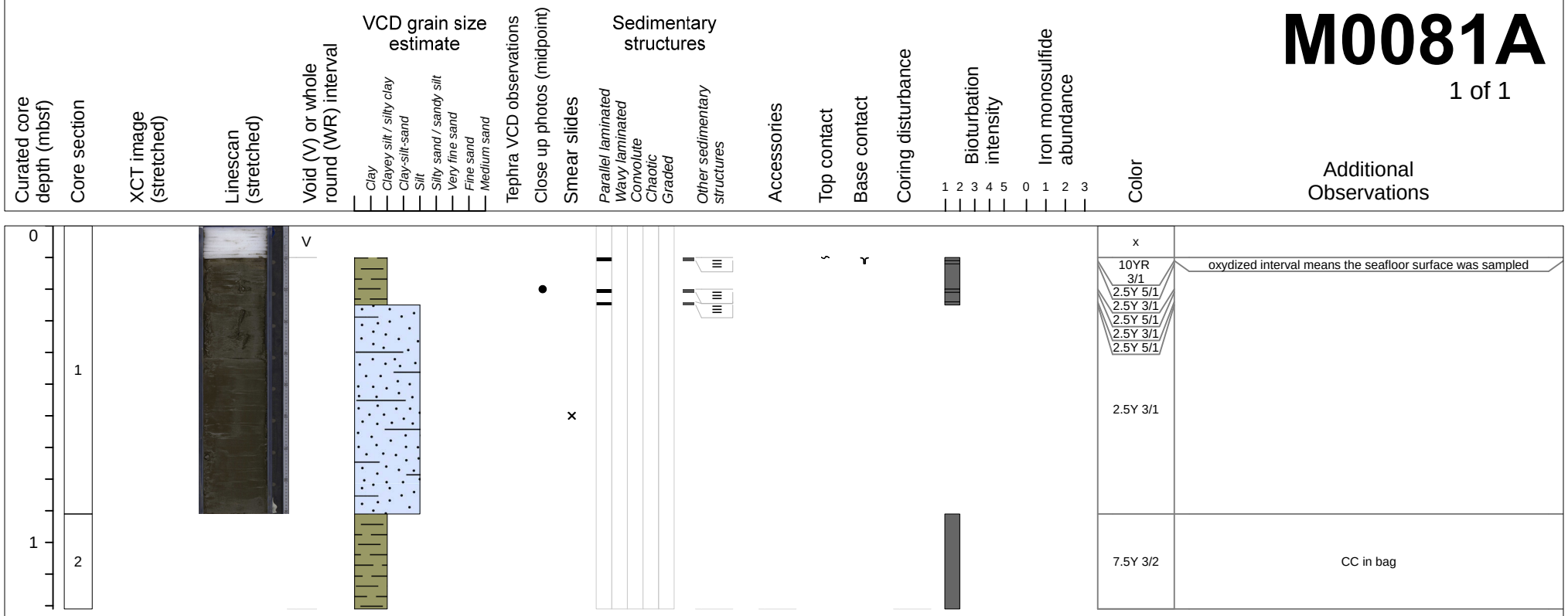
M0081F

1 of 1

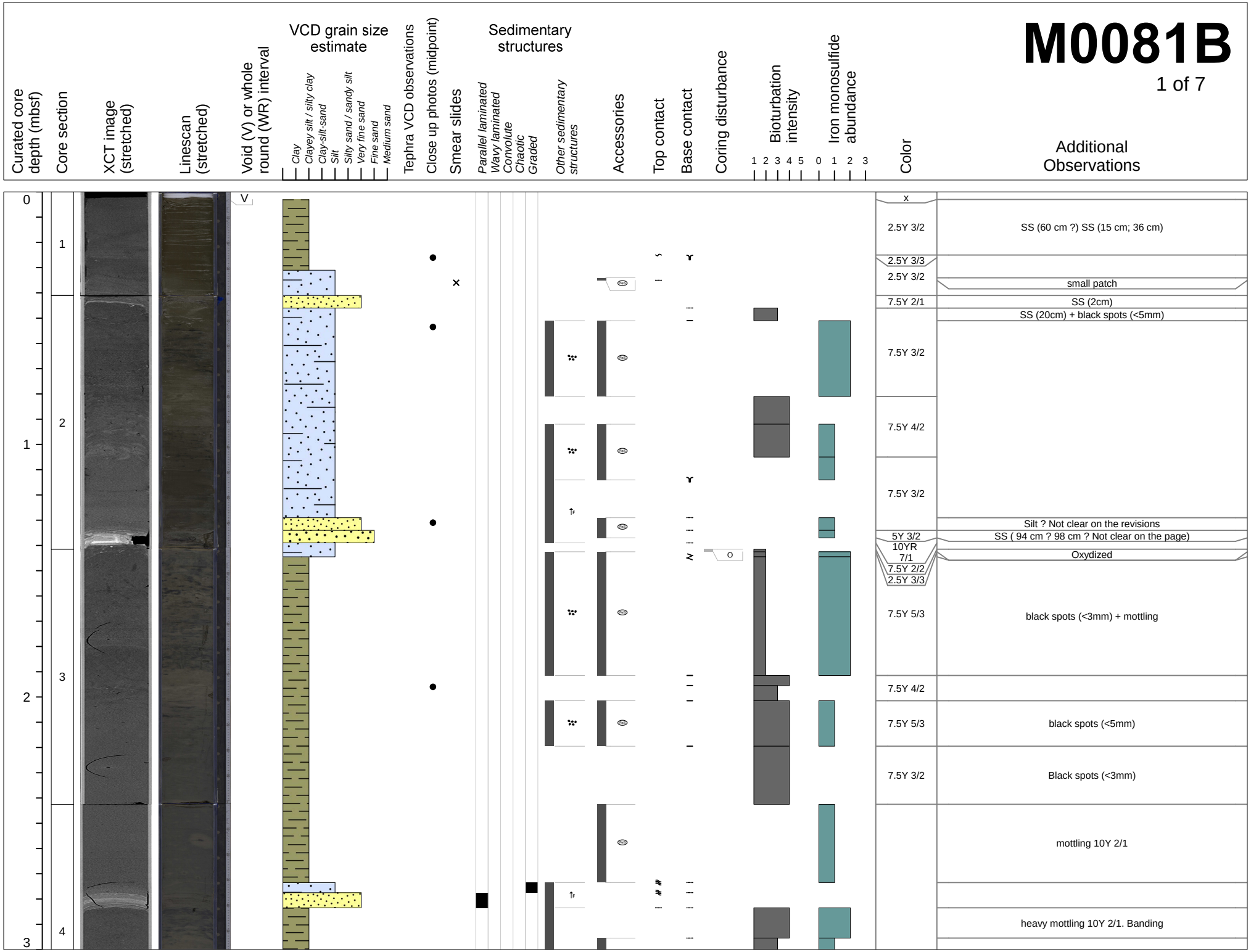

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Bioturbation presence
MS (SI x 10^-5)
Density (g/cc)
NGR (cps)
Methane (ppmv)
Sulfate (mM)
Alkalinity (mM)
TOC (%)
Pmag declination (degree)
Pmag intensity (A/m)
Pmag declination (degree)
Pmag inclination (degree)

M0081A

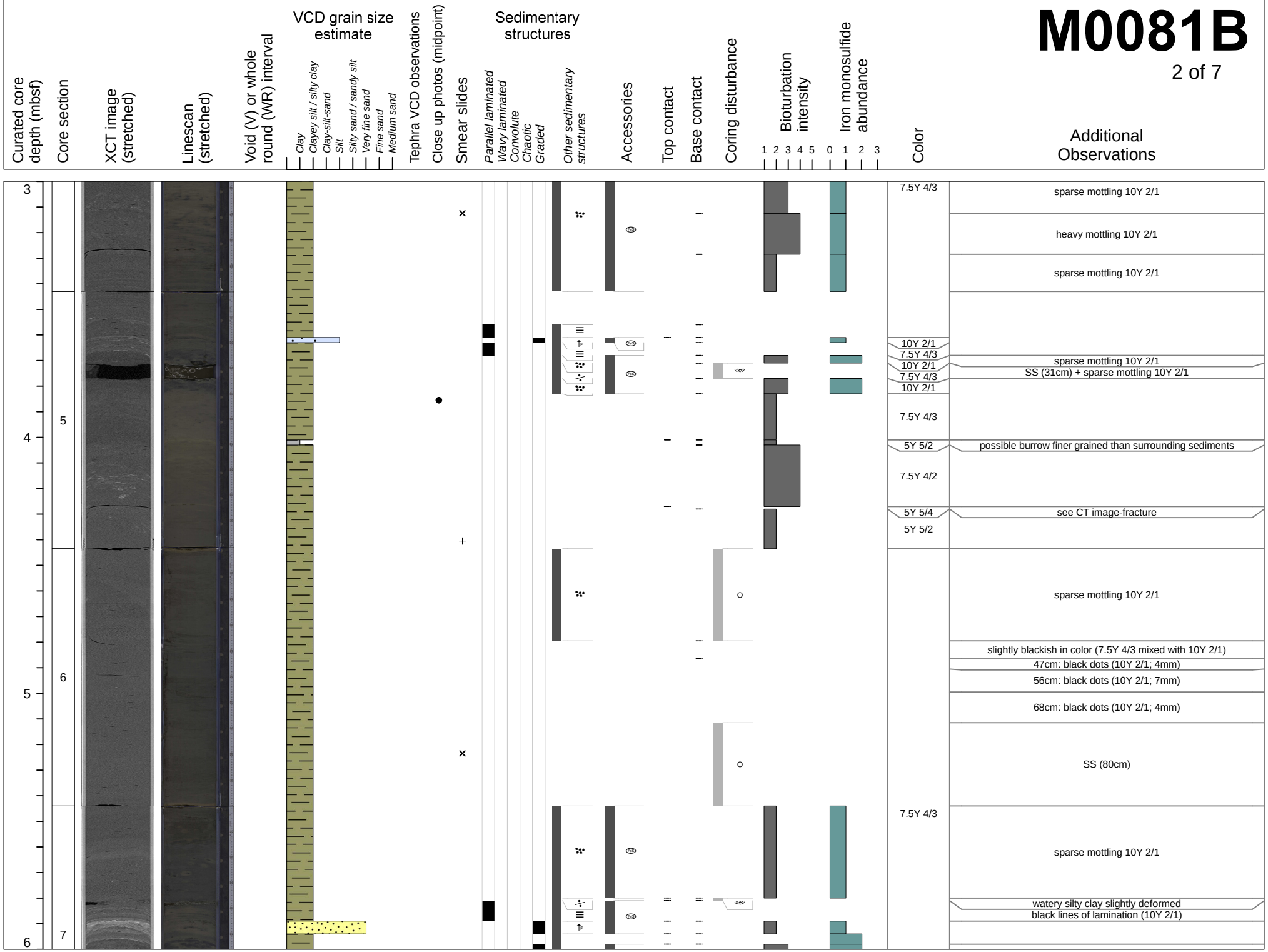
1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
1
2
V
x
10YR 3/1
2.5Y 5/1
2.5Y 3/1
2.5Y 5/1
2.5Y 3/1
2.5Y 5/1
2.5Y 3/1
7.5Y 3/2
oxydized interval means the seafloor surface was sampled
CC in bag

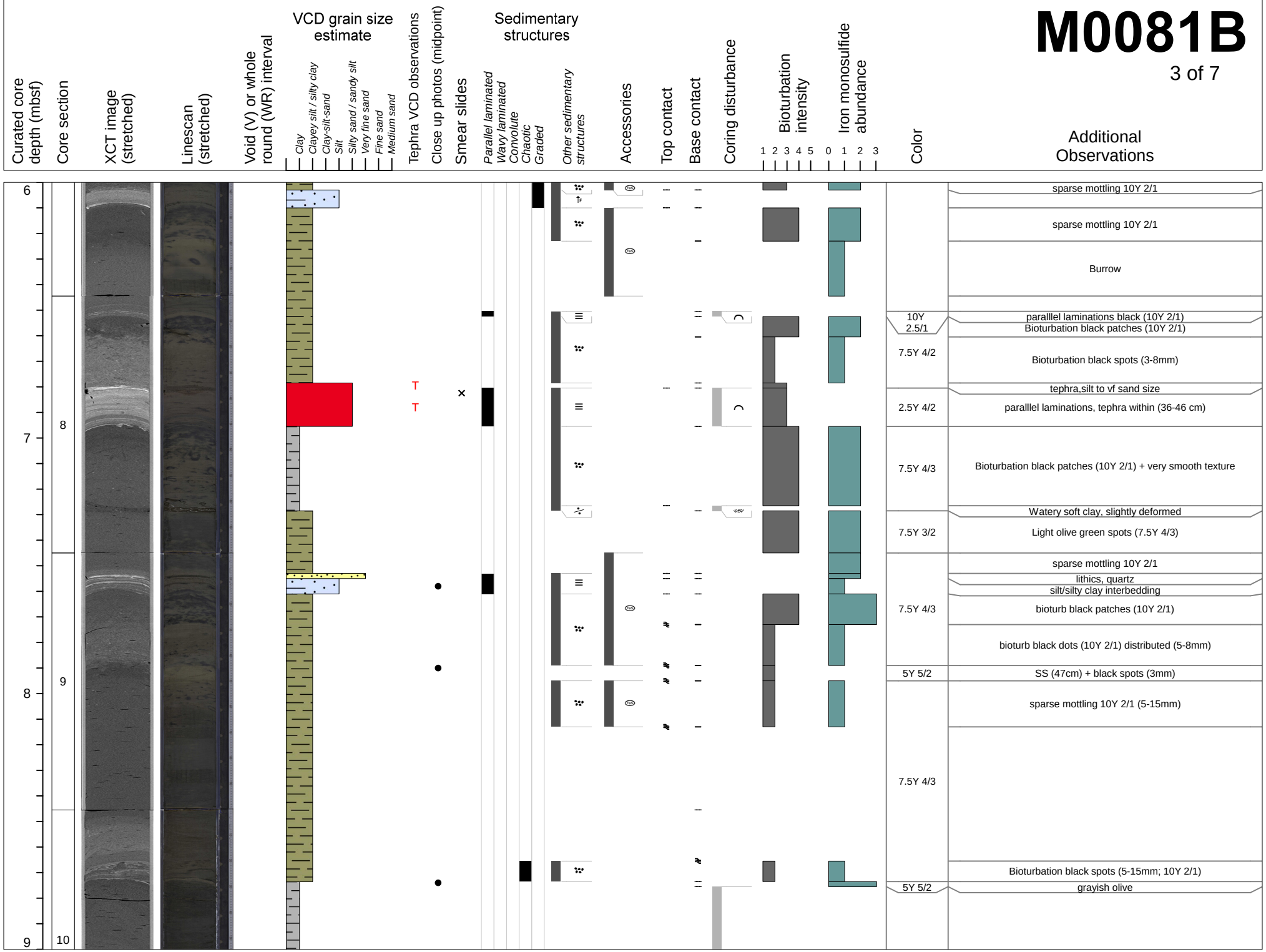
M0081B


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
2
3
1
2
3
4
V
x
O
2.5Y 3/2
SS (60 cm ?) SS (15 cm; 36 cm)
2.5Y 3/3
2.5Y 3/2
small patch
7.5Y 2/1
SS (2cm)
SS (20cm) + black spots (<5mm)
7.5Y 3/2
7.5Y 4/2
7.5Y 3/2
Silt ? Not clear on the revisions
5Y 3/2
SS (94 cm ? 98 cm ? Not clear on the page)
10YR 7/1
7.5Y 2/2
2.5Y 3/3
Oxydized
7.5Y 5/3
black spots (<3mm) + mottling
7.5Y 4/2
7.5Y 5/3
black spots (<5mm)
7.5Y 3/2
Black spots (<3mm)
mottling 10Y 2/1
heavy mottling 10Y 2/1. Banding

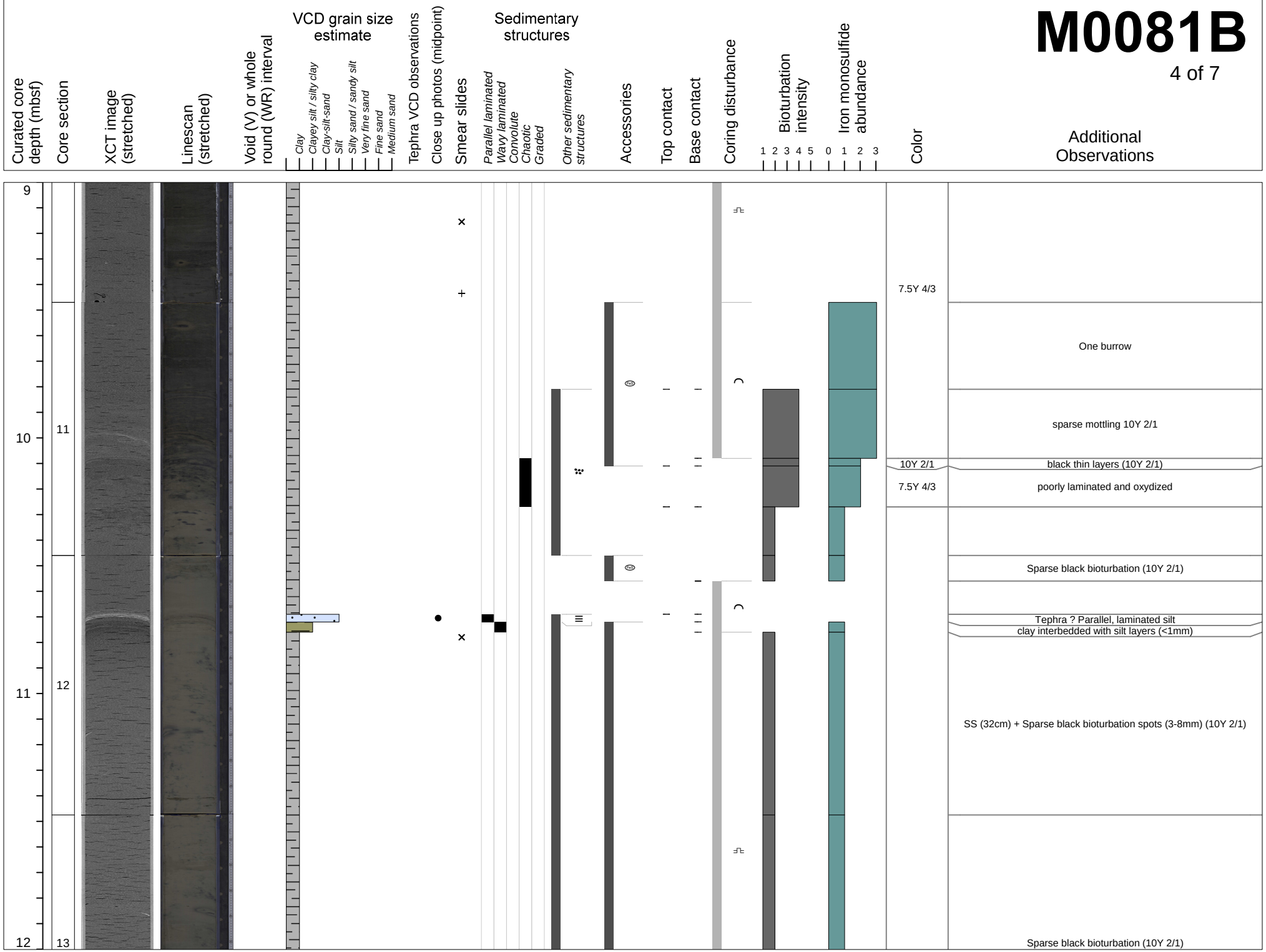
M0081B


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
3
4
5
6
5
6
7
7.5Y 4/3
10Y 2/1
7.5Y 4/3
10Y 2/1
7.5Y 4/3
10Y 2/1
7.5Y 4/3
5Y 5/2
7.5Y 4/2
5Y 5/4
5Y 5/2
7.5Y 4/3
sparse mottling 10Y 2/1
heavy mottling 10Y 2/1
sparse mottling 10Y 2/1
sparse mottling 10Y 2/1
SS (31cm) + sparse mottling 10Y 2/1
possible burrow finer grained than surrounding sediments
see CT image-fracture
sparse mottling 10Y 2/1
slightly blackish in color (7.5Y 4/3 mixed with 10Y 2/1)
47cm: black dots (10Y 2/1; 4mm)
56cm: black dots (10Y 2/1; 7mm)
68cm: black dots (10Y 2/1; 4mm)
SS (80cm)
sparse mottling 10Y 2/1
watery silty clay slightly deformed
black lines of lamination (10Y 2/1)

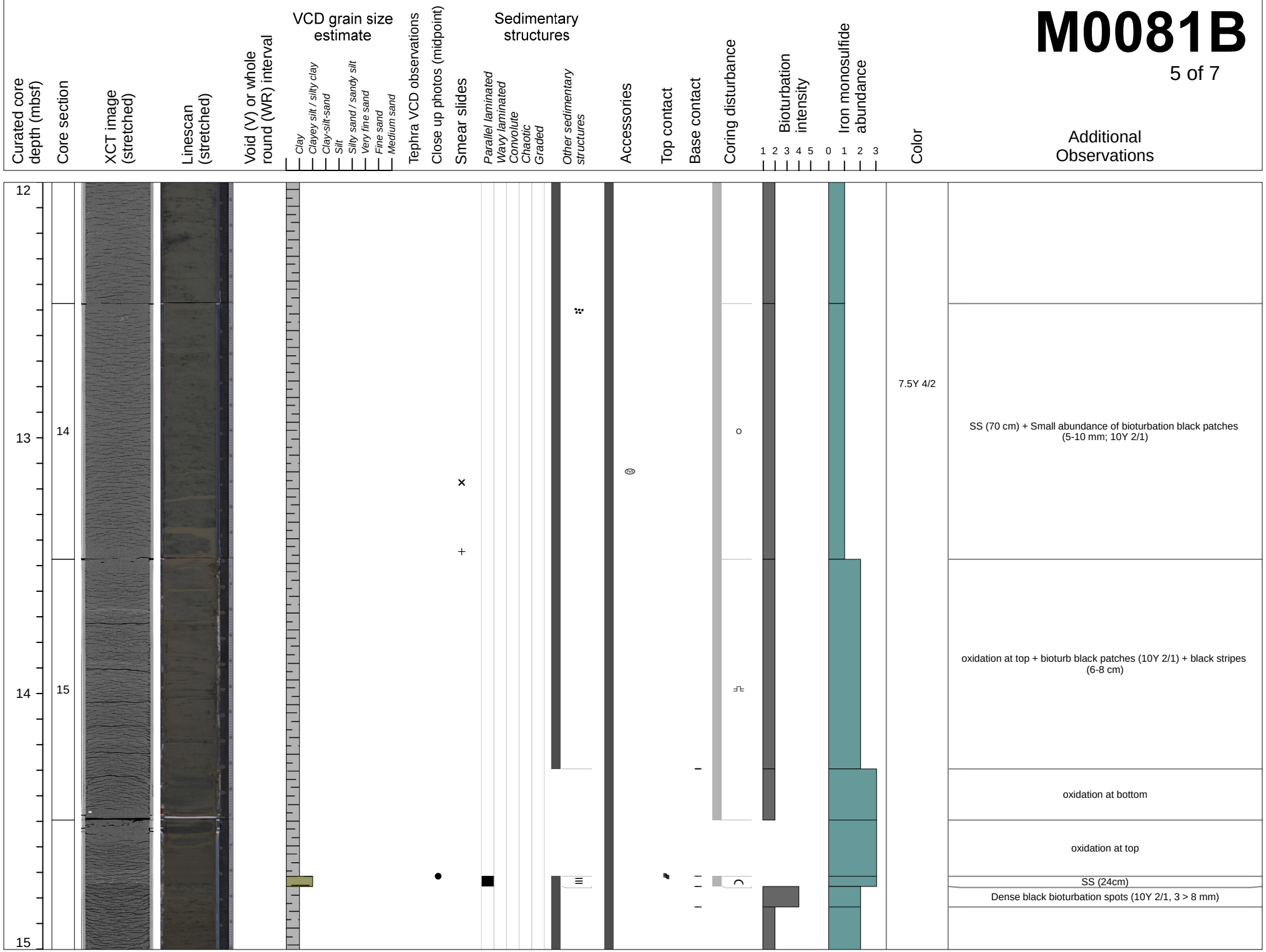
M0081B


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
6
7
8
9
8
10
T
T
10Y 2.5/1
7.5Y 4/2
2.5Y 4/2
7.5Y 4/3
7.5Y 3/2
7.5Y 4/3
5Y 5/2
7.5Y 4/3
5Y 5/2
sparse mottling 10Y 2/1
sparse mottling 10Y 2/1
Burrow
paralllel laminations black (10Y 2/1)
Bioturbation black patches (10Y 2/1)
Bioturbation black spots (3-8mm)
tephra,silt to vf sand size
paralllel laminations, tephra within (36-46 cm)
Bioturbation black patches (10Y 2/1) + very smooth texture
Watery soft clay, slightly deformed
Light olive green spots (7.5Y 4/3)
sparse mottling 10Y 2/1
lithics, quartz
silt/silty clay interbedding
bioturb black patches (10Y 2/1)
bioturb black dots (10Y 2/1) distributed (5-8mm)
SS (47cm) + black spots (3mm)
sparse mottling 10Y 2/1 (5-15mm)
Bioturbation black spots (5-15mm; 10Y 2/1)
grayish olive

M0081B

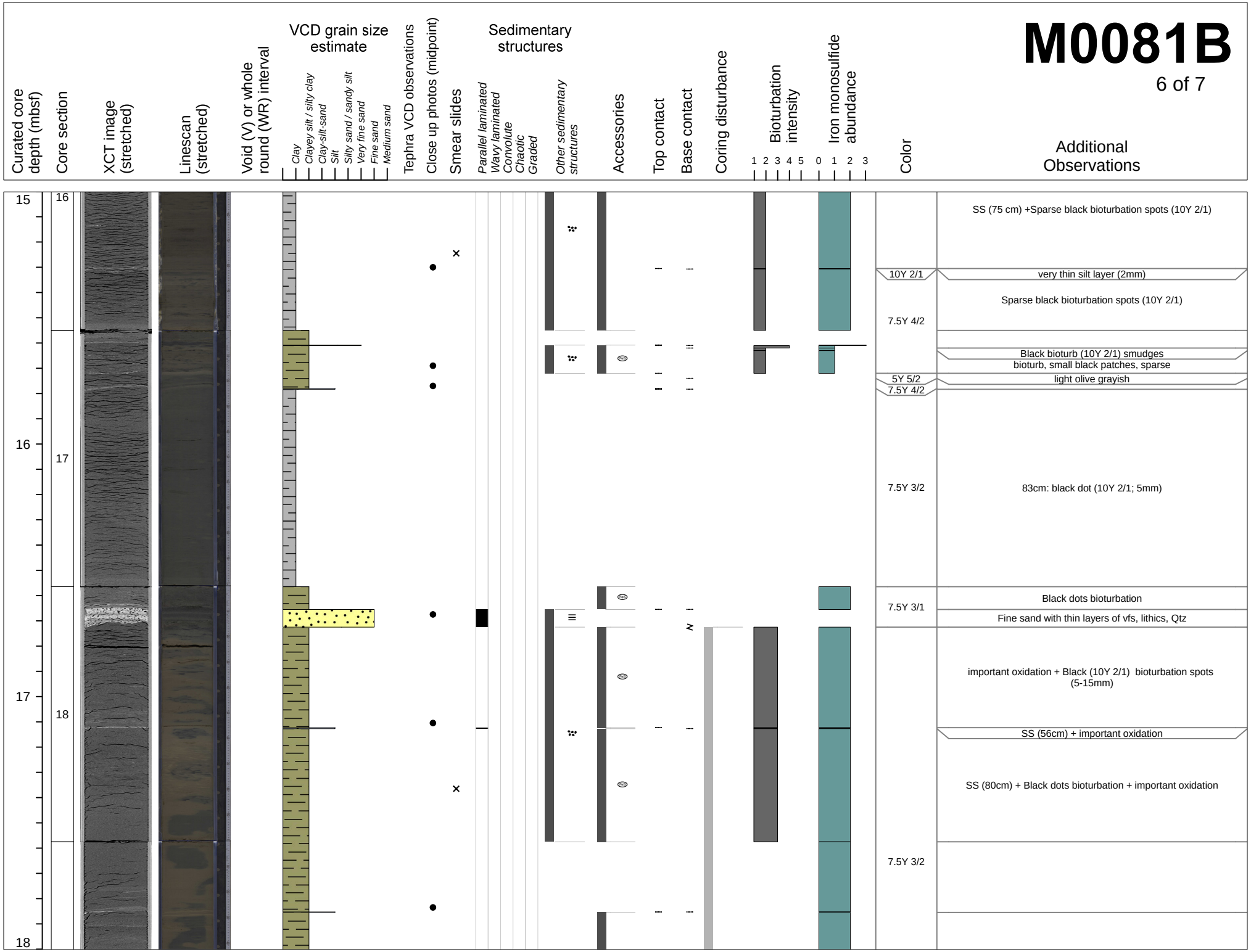

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
9
10
11
12
11
12
13
7.5Y 4/3
10Y 2/1
7.5Y 4/3
One burrow
sparse mottling 10Y 2/1
black thin layers (10Y 2/1)
poorly laminated and oxydized
Sparse black bioturbation (10Y 2/1)
Tephra ? Parallel, laminated silt
clay interbedded with silt layers (<1mm)
SS (32cm) + Sparse black bioturbation spots (3-8mm) (10Y 2/1)
Sparse black bioturbation (10Y 2/1)

M0081B


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
12
13
14
15
14
15
7.5Y 4/2
SS (70 cm) + Small abundance of bioturbation black patches (5-10 mm; 10Y 2/1)
oxidation at top + bioturb black patches (10Y 2/1) + black stripes (6-8 cm)
oxidation at bottom
oxidation at top
SS (24cm)
Dense black bioturbation spots (10Y 2/1, 3 > 8 mm)

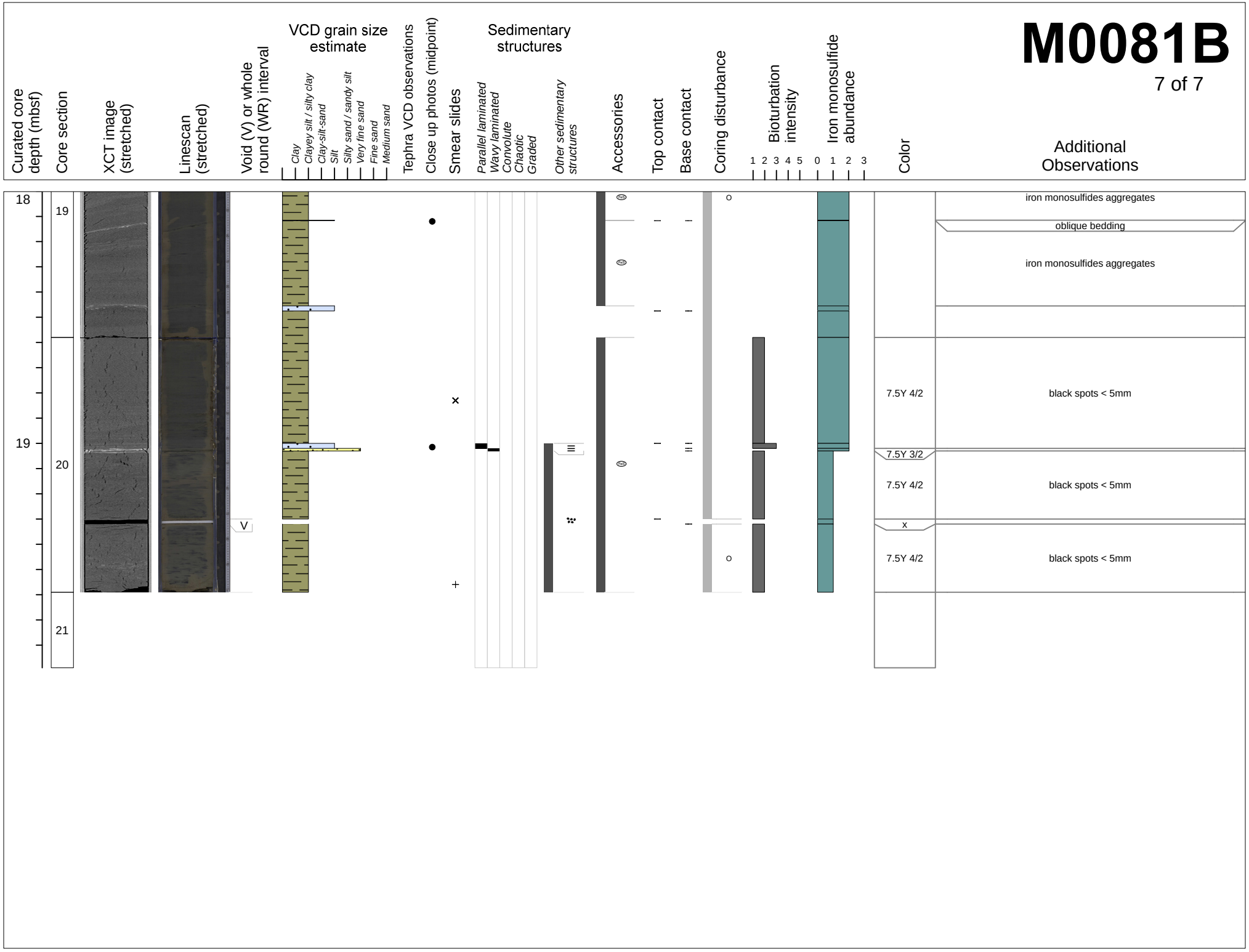
M0081B

6 of 7


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
15
16
17
18
16
17
18
10Y 2/1
7.5Y 4/2
5Y 5/2
7.5Y 4/2
7.5Y 3/2
7.5Y 3/1
7.5Y 3/2
SS (75 cm) +Sparse black bioturbation spots (10Y 2/1)
very thin silt layer (2mm)
Sparse black bioturbation spots (10Y 2/1)
Black bioturb (10Y 2/1) smudges
bioturb, small black patches, sparse
light olive grayish
83cm: black dot (10Y 2/1; 5mm)
Black dots bioturbation
Fine sand with thin layers of vfs, lithics, Qtz
important oxidation + Black (10Y 2/1) bioturbation spots (5-15mm)
SS (56cm) + important oxidation
SS (80cm) + Black dots bioturbation + important oxidation

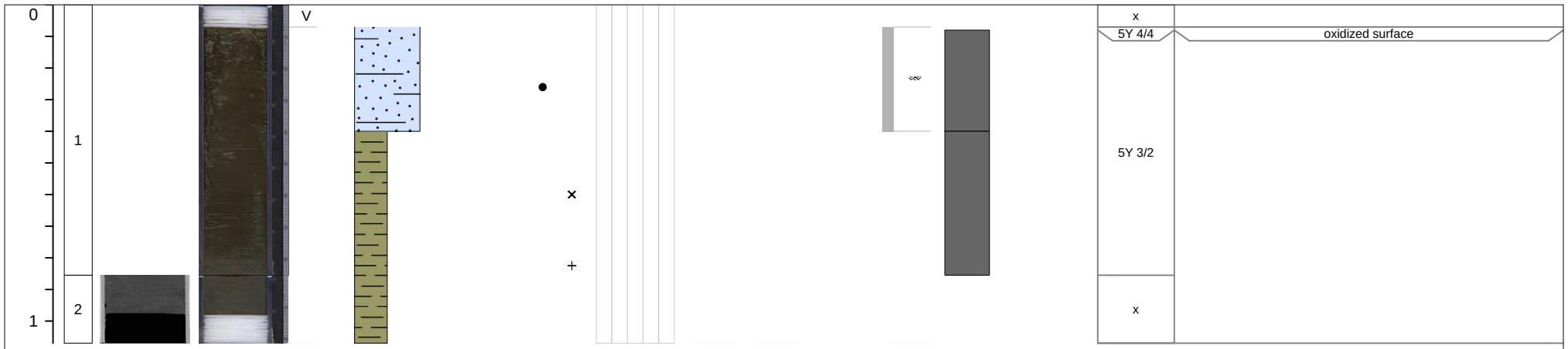
M0081B

7 of 7

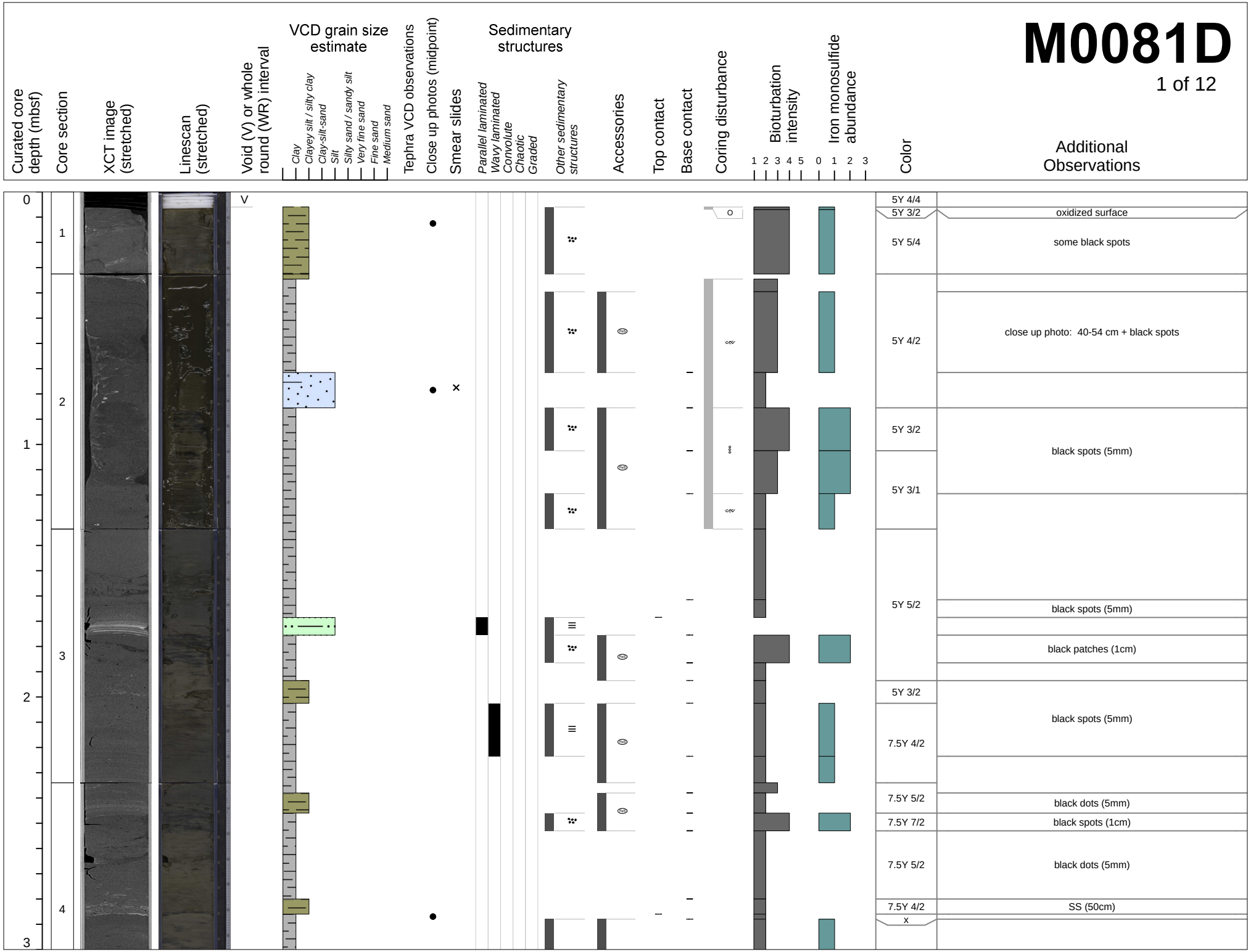

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
18
19
19
20
21
V
7.5Y 4/2
7.5Y 3/2
7.5Y 4/2
7.5Y 4/2
iron monosulfides aggregates
oblique bedding
iron monosulfides aggregates
black spots < 5mm
black spots < 5mm
black spots < 5mm

M0081C

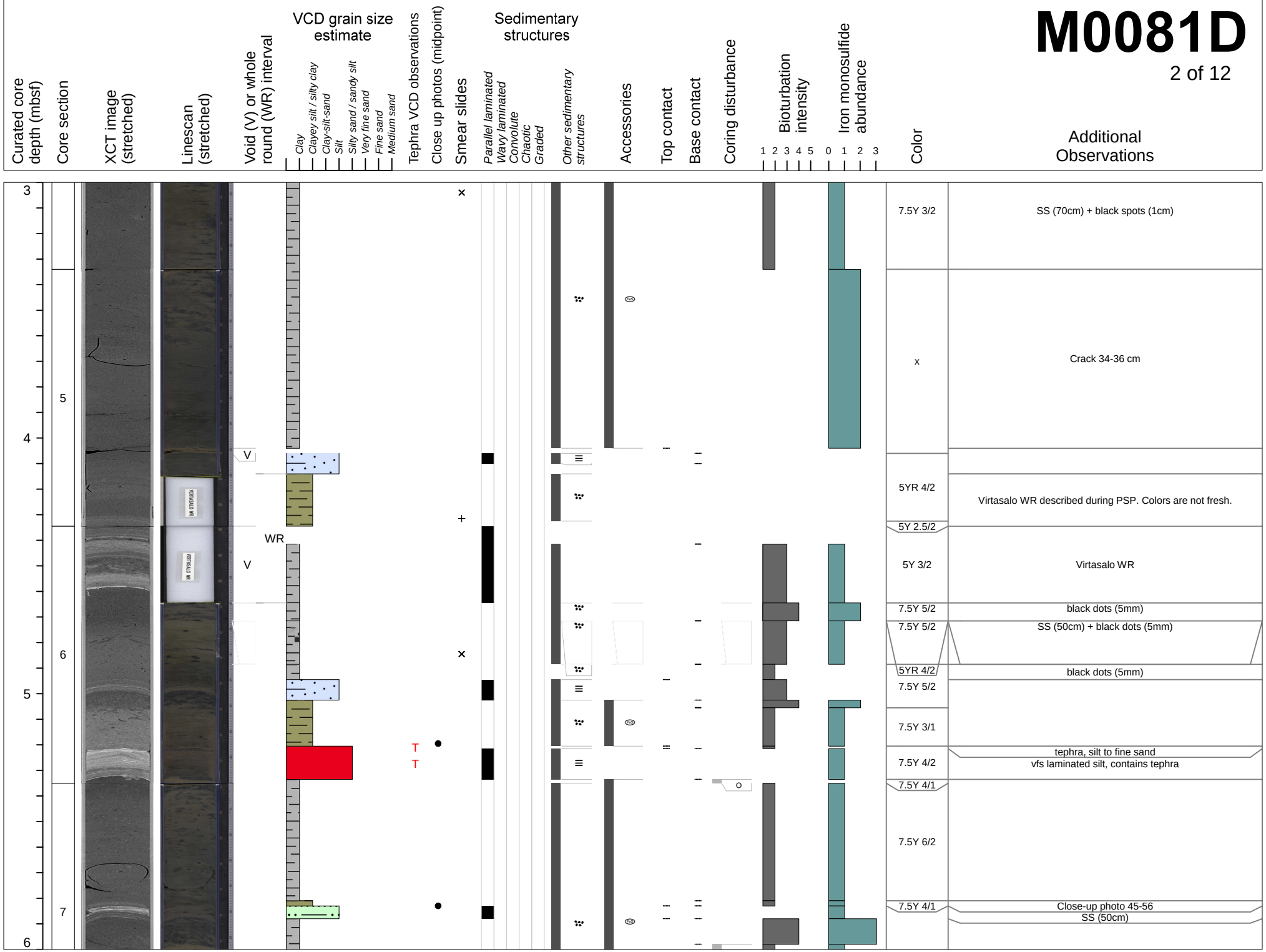
1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
1
2
V
x
5Y 4/4
oxidized surface
5Y 3/2
x

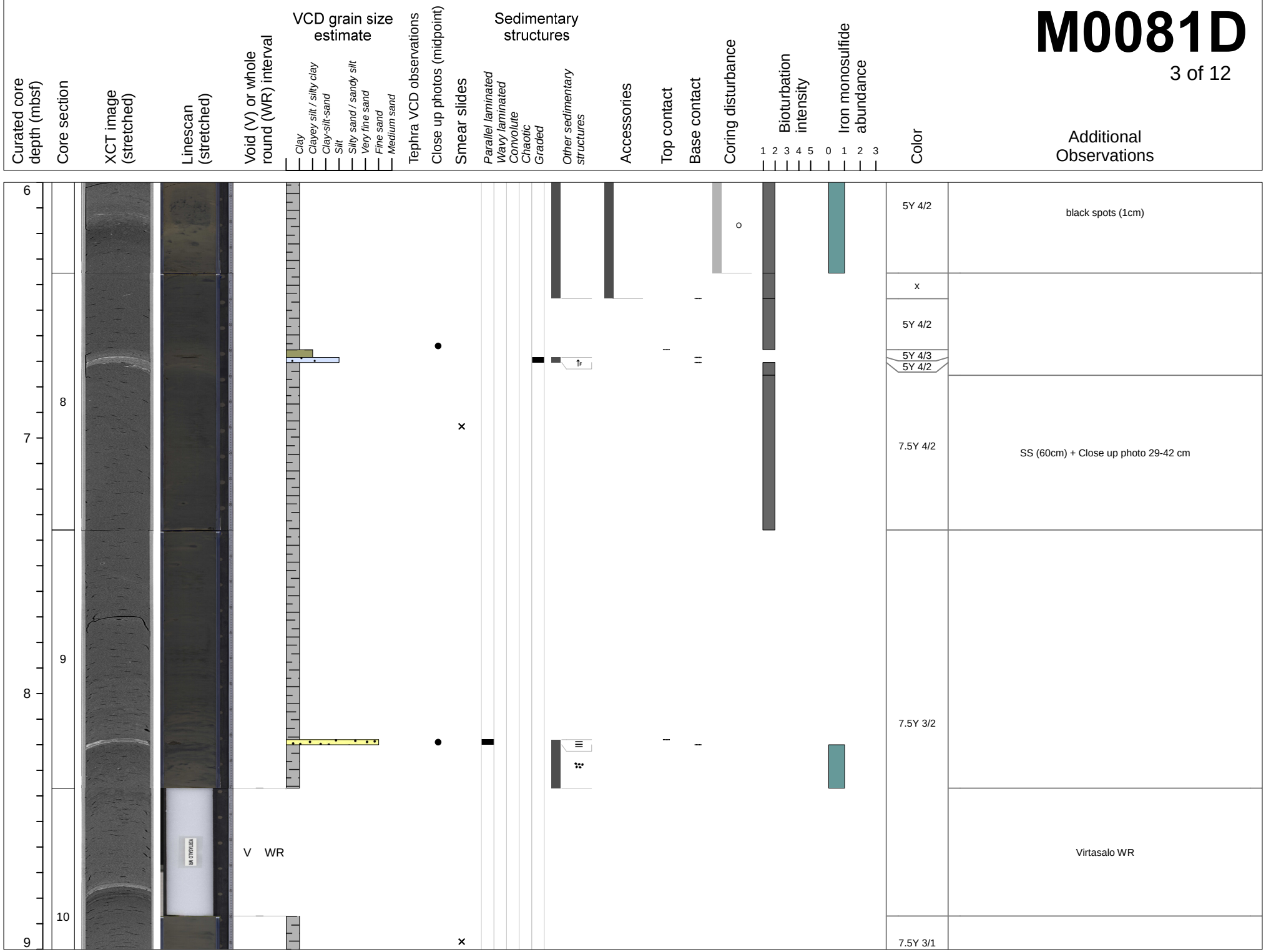
M0081D


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
2
3
1
2
3
4
V
5Y 4/4
5Y 3/2
oxidized surface
5Y 5/4
some black spots
5Y 4/2
close up photo: 40-54 cm + black spots
5Y 3/2
black spots (5mm)
5Y 3/1
5Y 5/2
black spots (5mm)
black patches (1cm)
5Y 3/2
black spots (5mm)
7.5Y 4/2
7.5Y 5/2
black dots (5mm)
7.5Y 7/2
black spots (1cm)
7.5Y 5/2
black dots (5mm)
7.5Y 4/2
SS (50cm)
x

M0081D


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
3
4
5
6
5
6
7
V
WR
V
T
T
7.5Y 3/2
SS (70cm) + black spots (1cm)
x
Crack 34-36 cm
5YR 4/2
Virtasalo WR described during PSP. Colors are not fresh.
5Y 2.5/2
5Y 3/2
Virtasalo WR
7.5Y 5/2
black dots (5mm)
7.5Y 5/2
SS (50cm) + black dots (5mm)
5YR 4/2
black dots (5mm)
7.5Y 5/2
7.5Y 3/1
tephra, silt to fine sand
7.5Y 4/2
vfs laminated silt, contains tephra
7.5Y 4/1
7.5Y 6/2
7.5Y 4/1
Close-up photo 45-56
SS (50cm)

M0081D


Curated core depth (mbsf)
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XCT image (stretched)
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Void (V) or whole round (WR) interval
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Fine sand
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Convolute
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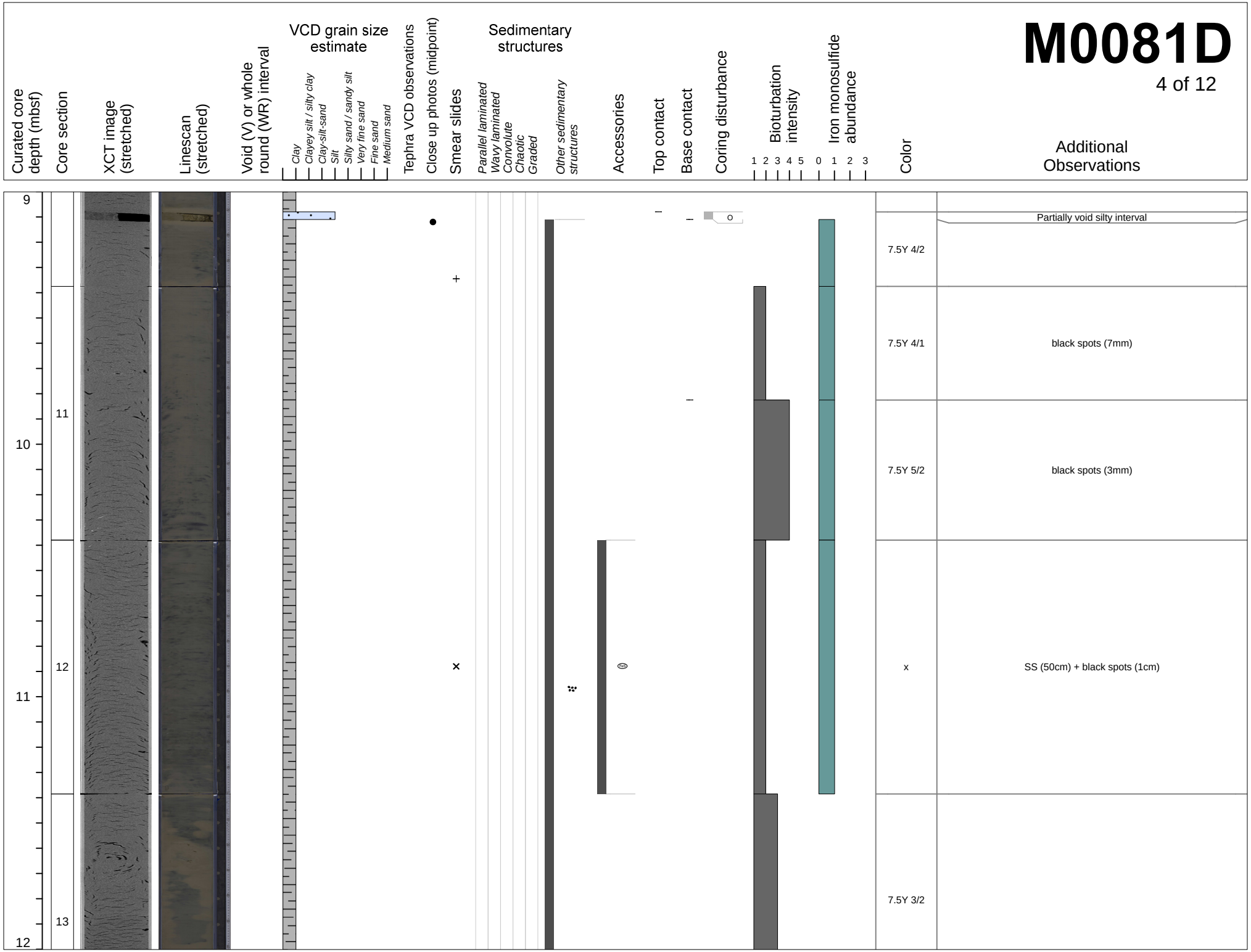
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
6
7
8
9
8
9
10
V WR
5Y 4/2
x
5Y 4/2
5Y 4/3
5Y 4/2
7.5Y 4/2
7.5Y 3/2
7.5Y 3/1
black spots (1cm)
SS (60cm) + Close up photo 29-42 cm
Virtasalo WR

M0081D


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
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Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
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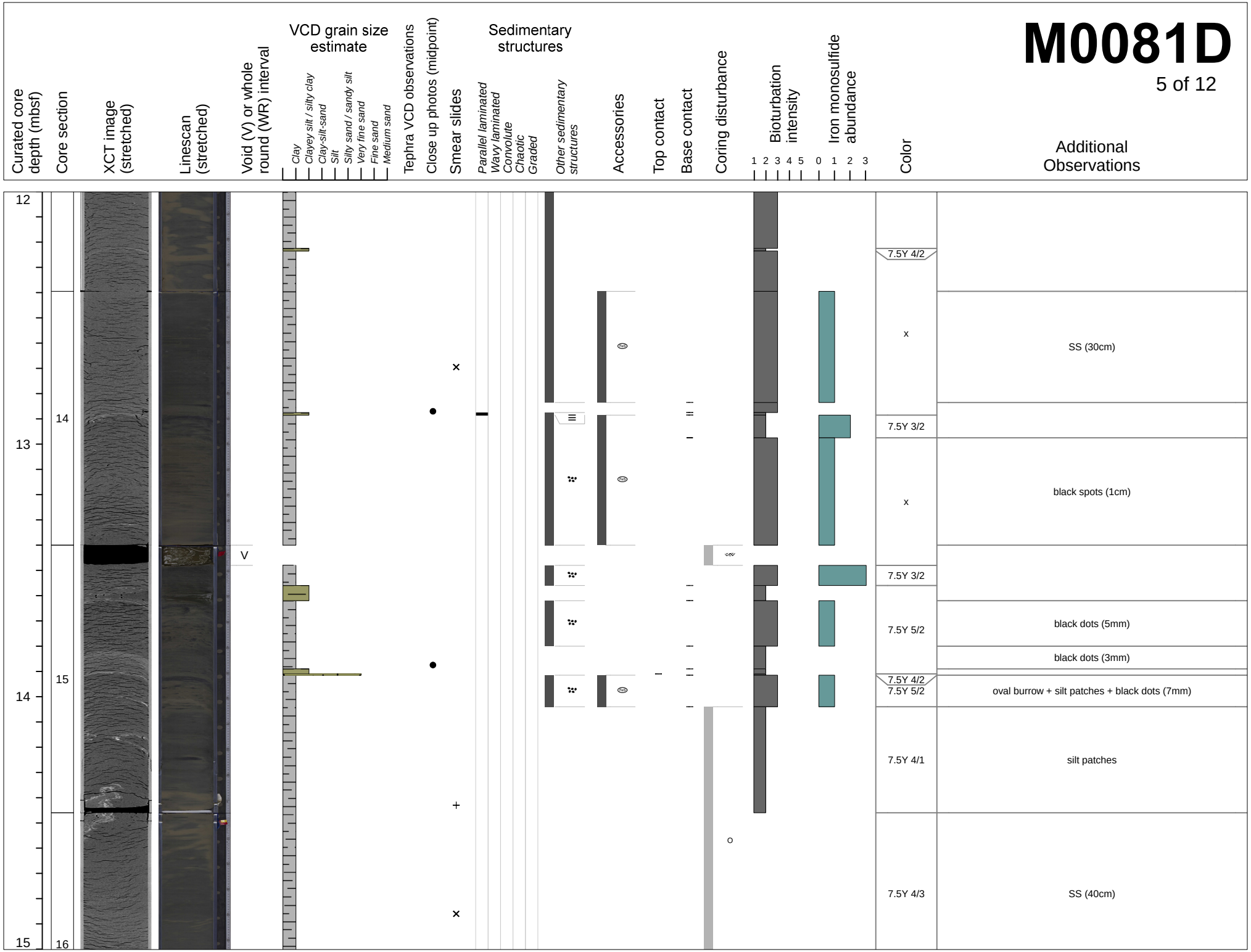
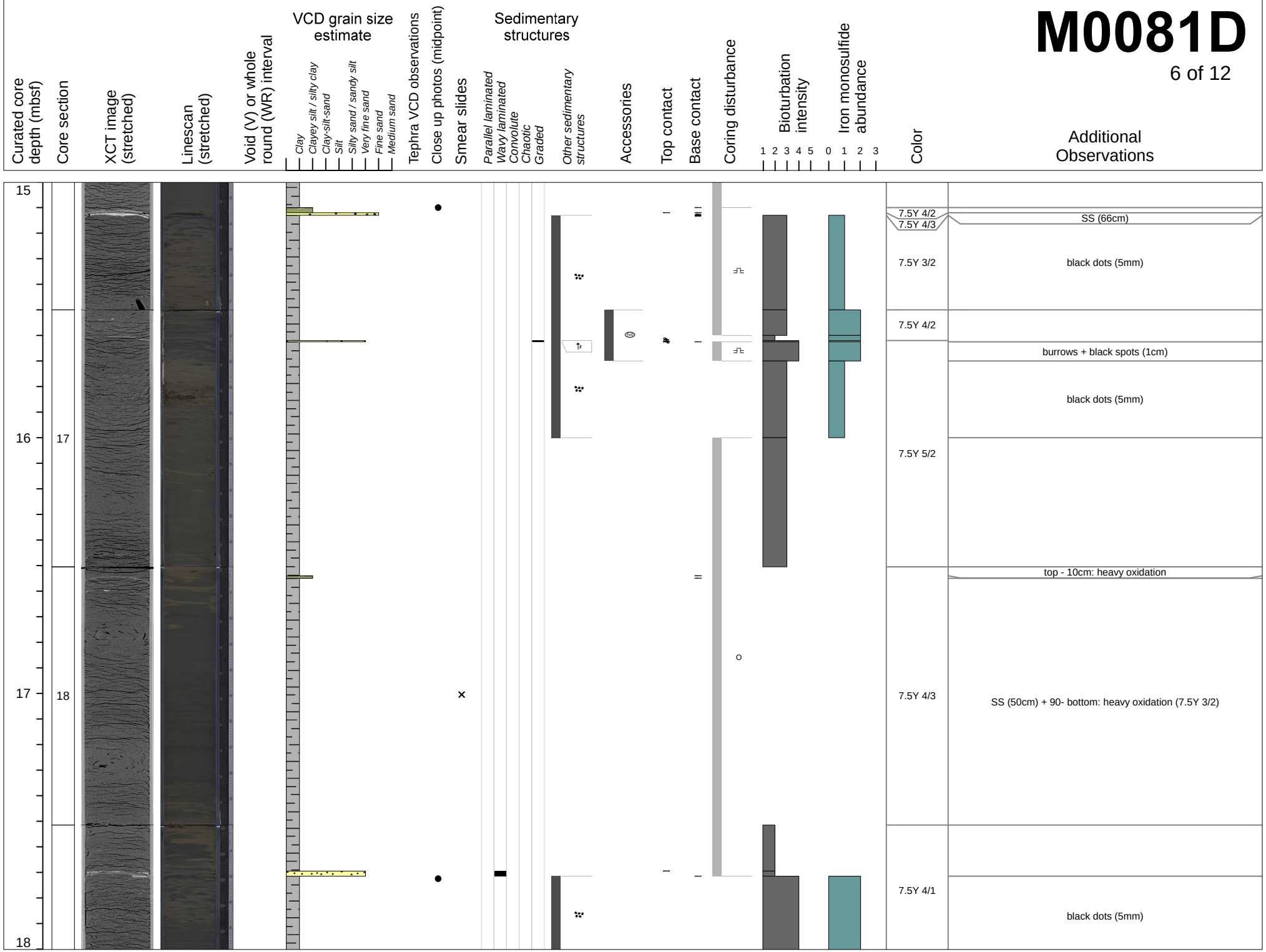
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
9
10
11
12
11
12
13
7.5Y 4/2
7.5Y 4/1
7.5Y 5/2
x
7.5Y 3/2
Partially void silty interval
black spots (7mm)
black spots (3mm)
SS (50cm) + black spots (1cm)

M0081D

5 of 12



M0081D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Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
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Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
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Fine sand
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Smear slides
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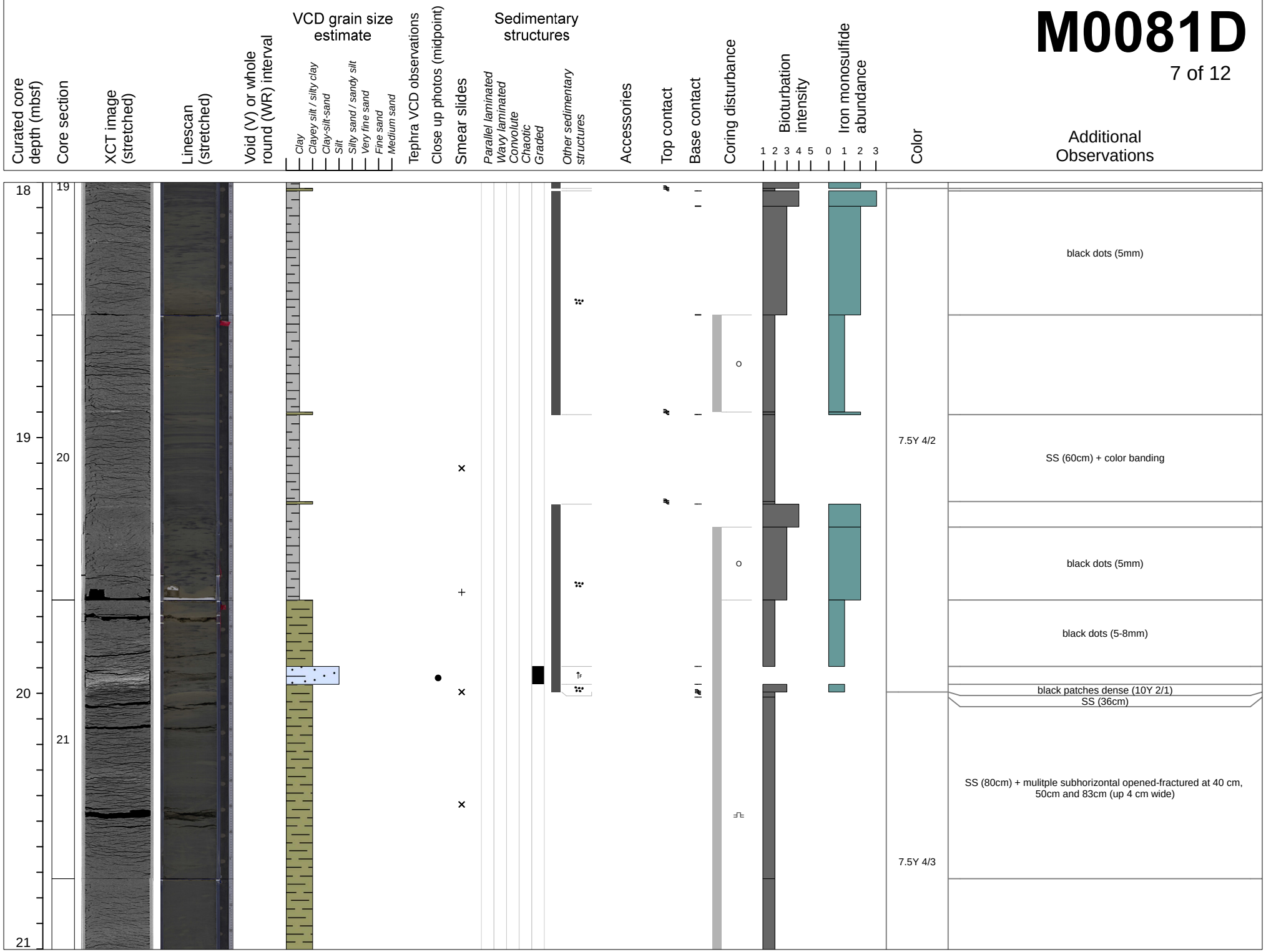
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
15
16
17
18
17
18
7.5Y 4/2
7.5Y 4/3
SS (66cm)
7.5Y 3/2
black dots (5mm)
7.5Y 4/2
burrows + black spots (1cm)
black dots (5mm)
7.5Y 5/2
top - 10cm: heavy oxidation
7.5Y 4/3
SS (50cm) + 90- bottom: heavy oxidation (7.5Y 3/2)
7.5Y 4/1
black dots (5mm)

M0081D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XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
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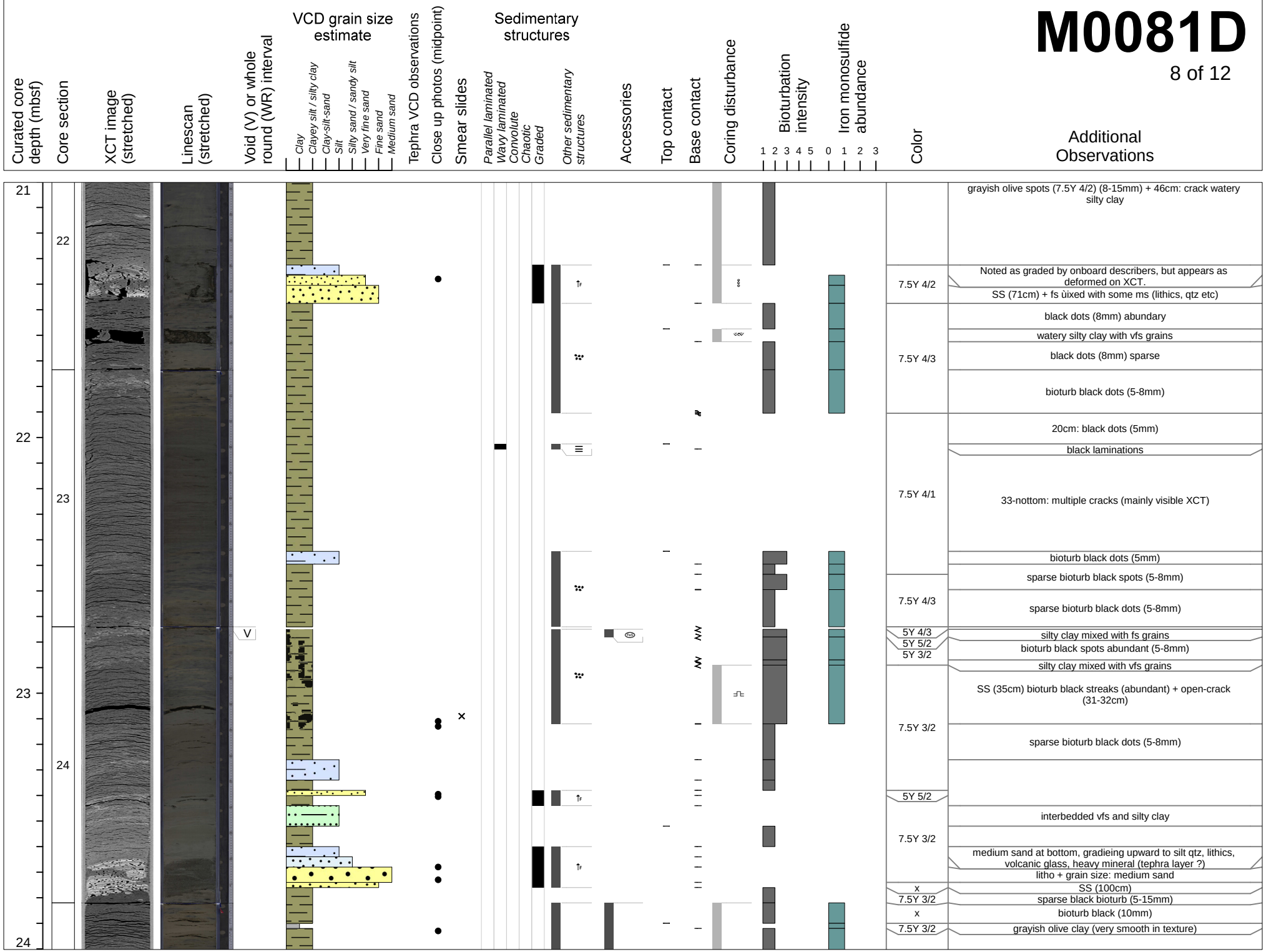
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
18
19
20
21
19
20
21
7.5Y 4/2
7.5Y 4/3
black dots (5mm)
SS (60cm) + color banding
black dots (5mm)
black dots (5-8mm)
black patches dense (10Y 2/1)
SS (36cm)
SS (80cm) + mulitple subhorizontal opened-fractured at 40 cm, 50cm and 83cm (up 4 cm wide)

M0081D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VCD grain size estimate
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Silty sand / sandy silt
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Fine sand
Medium sand
Tephra VCD observations
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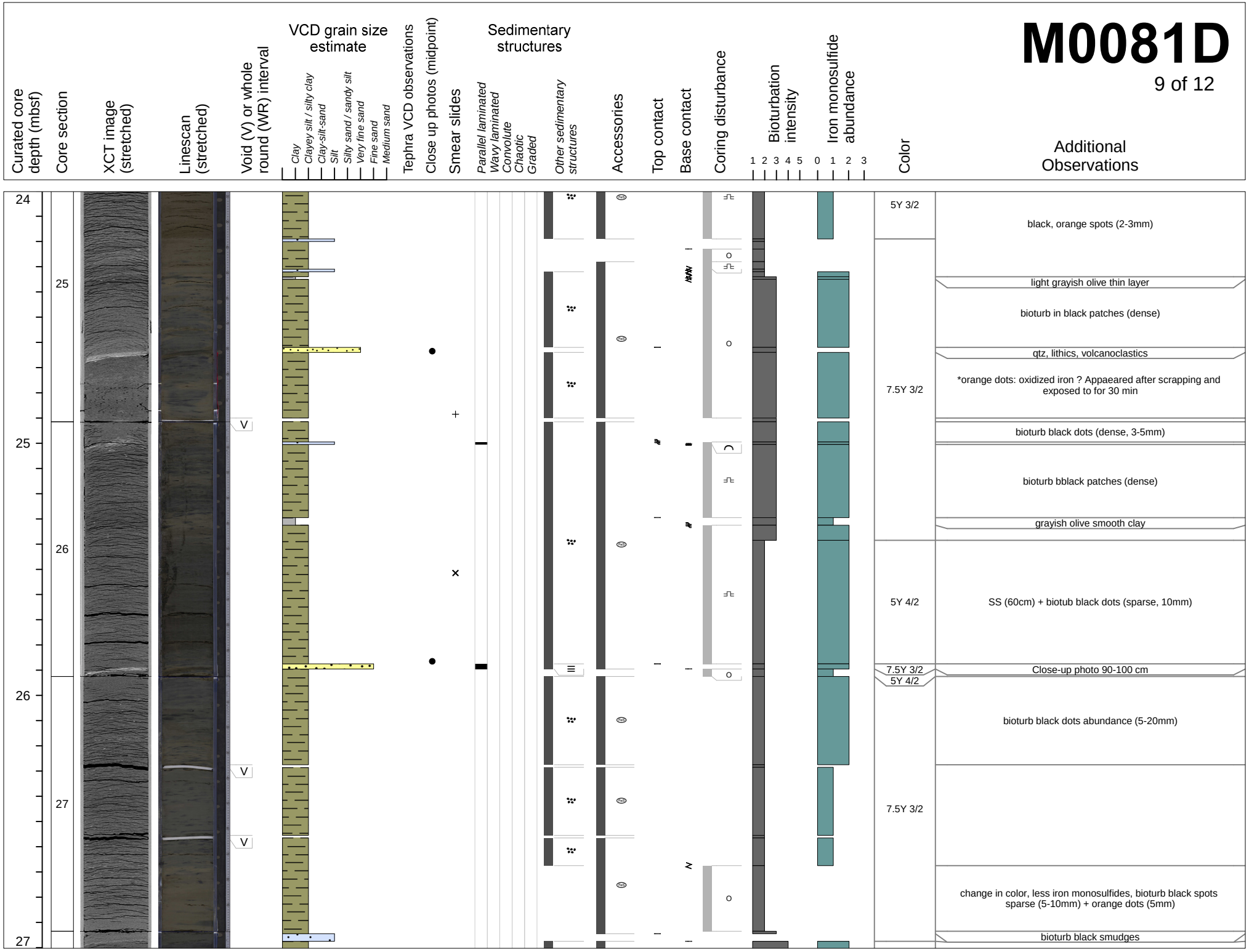
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
21
22
23
24
22
23
24
V
x
7.5Y 4/2
7.5Y 4/3
7.5Y 4/1
7.5Y 4/3
5Y 4/3
5Y 5/2
5Y 3/2
7.5Y 3/2
5Y 5/2
7.5Y 3/2
x
7.5Y 3/2
x
7.5Y 3/2
grayish olive spots (7.5Y 4/2) (8-15mm) + 46cm: crack watery silty clay
Noted as graded by onboard describers, but appears as deformed on XCT.
SS (71cm) + fs ùixed with some ms (lithics, qtz etc)
black dots (8mm) abundary
watery silty clay with vfs grains
black dots (8mm) sparse
bioturb black dots (5-8mm)
20cm: black dots (5mm)
black laminations
33-nottom: multiple cracks (mainly visible XCT)
bioturb black dots (5mm)
sparse bioturb black spots (5-8mm)
sparse bioturb black dots (5-8mm)
silty clay mixed with fs grains
bioturb black spots abundant (5-8mm)
silty clay mixed with vfs grains
SS (35cm) bioturb black streaks (abundant) + open-crack (31-32cm)
sparse bioturb black dots (5-8mm)
interbedded vfs and silty clay
medium sand at bottom, gradieing upward to silt qtz, lithics, volcanic glass, heavy mineral (tephra layer ?)
litho + grain size: medium sand
SS (100cm)
sparse black bioturb (5-15mm)
bioturb black (10mm)
grayish olive clay (very smooth in texture)

M0081D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Linescan (stretched)
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VCD grain size estimate
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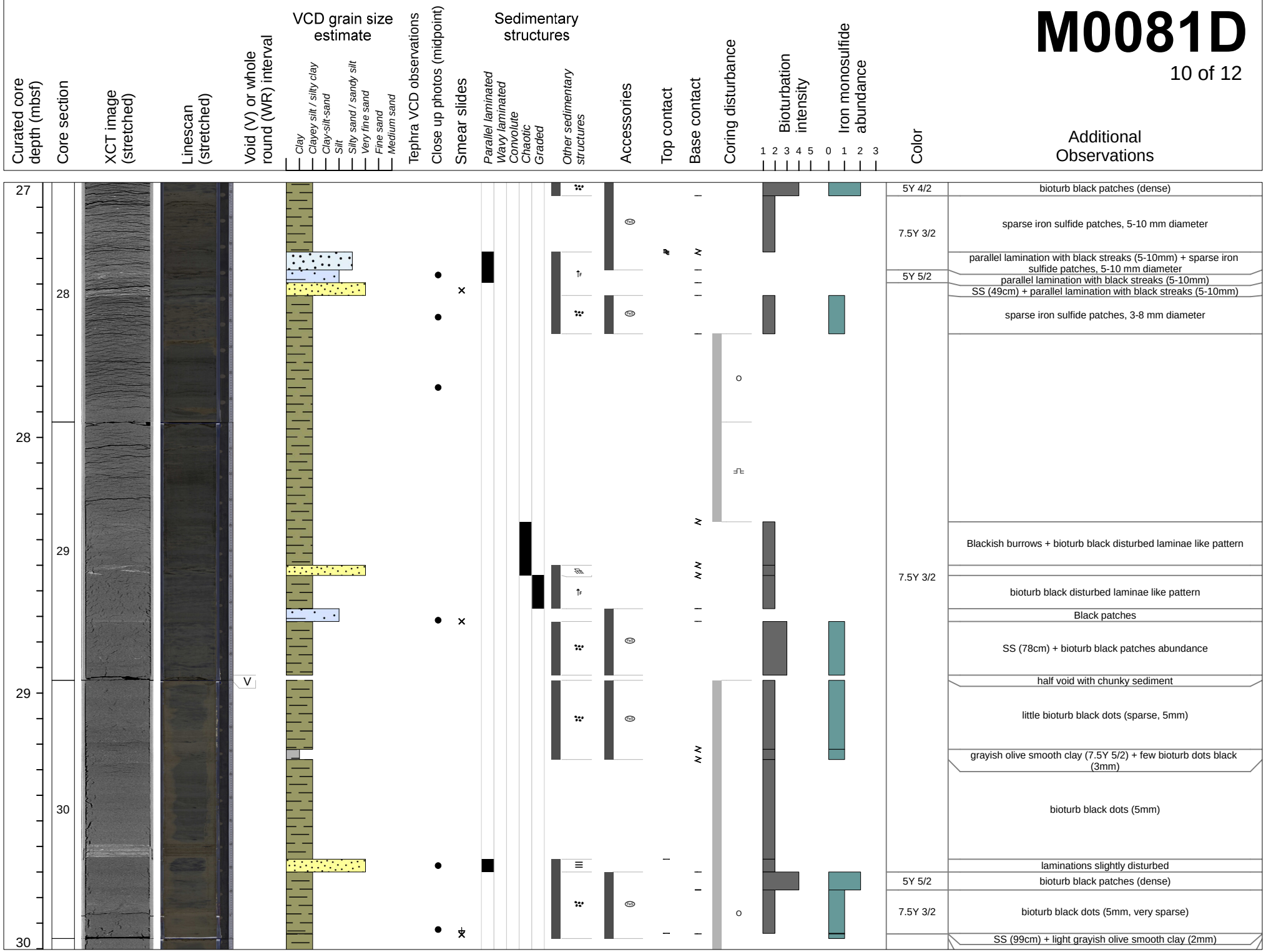
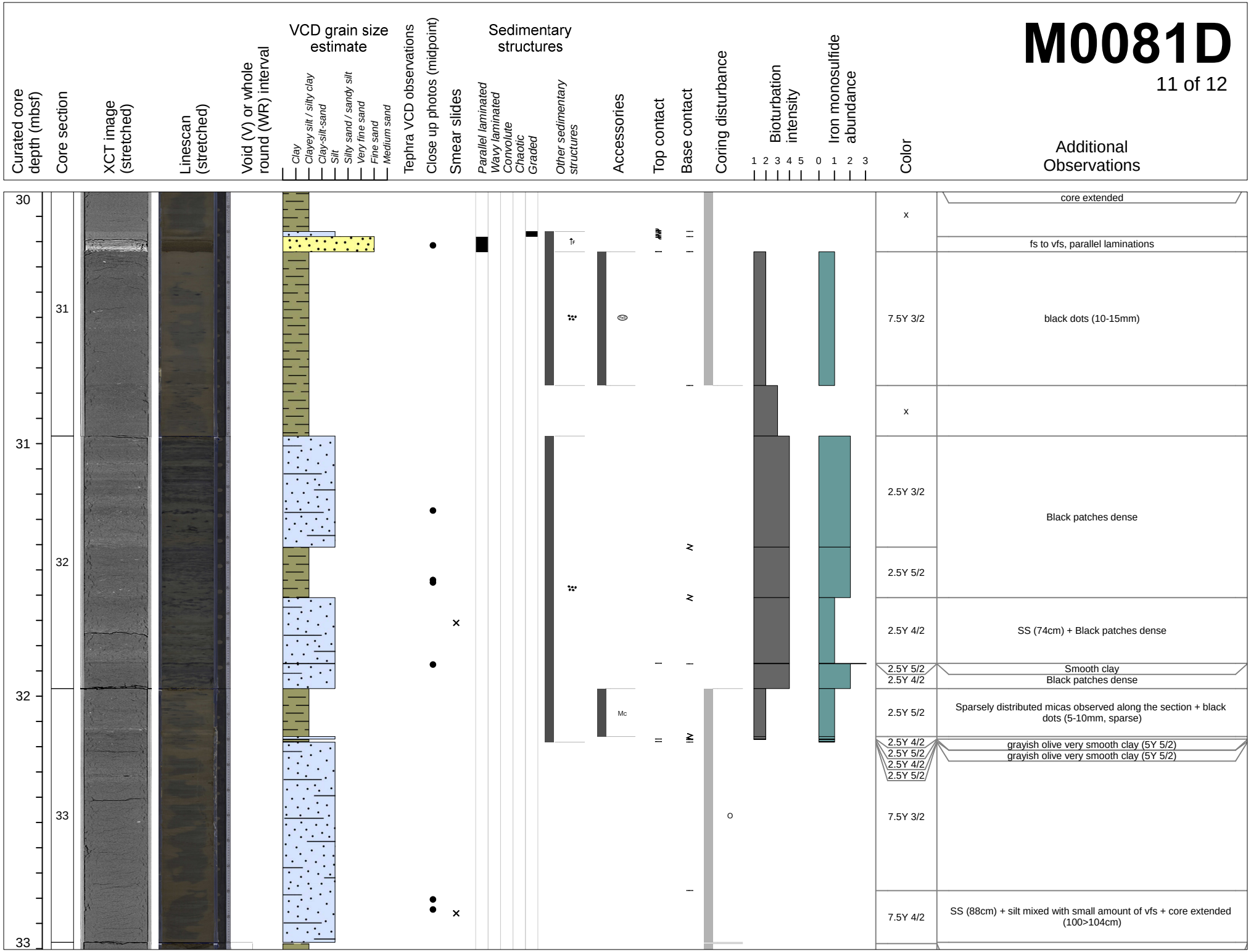
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
24
25
26
27
V
5Y 3/2
7.5Y 3/2
5Y 4/2
black, orange spots (2-3mm)
light grayish olive thin layer
bioturb in black patches (dense)
qtz, lithics, volcanoclastics
*orange dots: oxidized iron ? Appaeared after scrapping and exposed to for 30 min
bioturb black dots (dense, 3-5mm)
bioturb bblack patches (dense)
grayish olive smooth clay
SS (60cm) + biotub black dots (sparse, 10mm)
Close-up photo 90-100 cm
bioturb black dots abundance (5-20mm)
change in color, less iron monosulfides, bioturb black spots sparse (5-10mm) + orange dots (5mm)
bioturb black smudges

M0081D

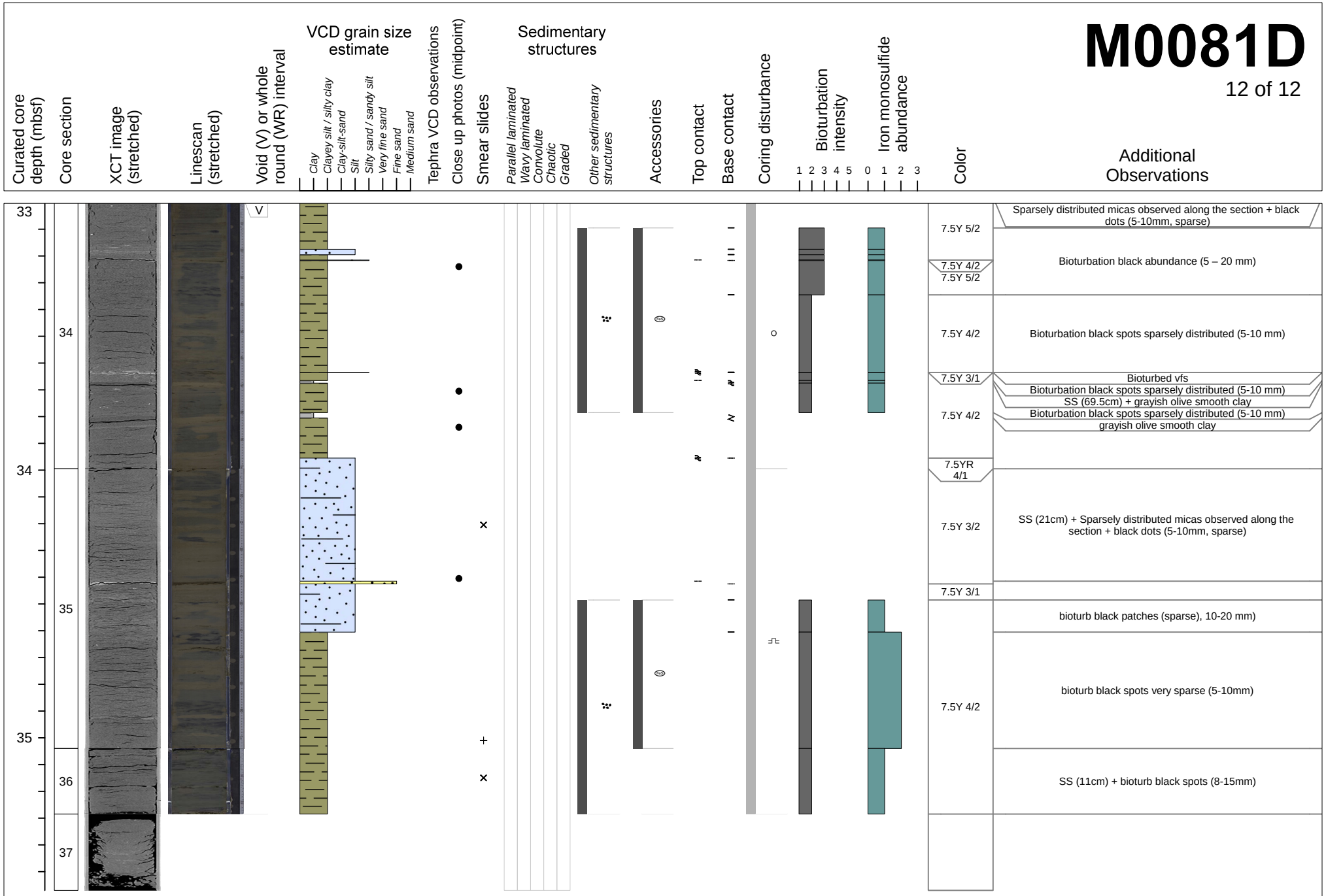

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
27
28
28
29
29
30
30
28
29
30
V
5Y 4/2
7.5Y 3/2
5Y 5/2
7.5Y 3/2
5Y 5/2
7.5Y 3/2
bioturb black patches (dense)
sparse iron sulfide patches, 5-10 mm diameter
parallel lamination with black streaks (5-10mm) + sparse iron sulfide patches, 5-10 mm diameter
parallel lamination with black streaks (5-10mm)
SS (49cm) + parallel lamination with black streaks (5-10mm)
sparse iron sulfide patches, 3-8 mm diameter
Blackish burrows + bioturb black disturbed laminae like pattern
bioturb black disturbed laminae like pattern
Black patches
SS (78cm) + bioturb black patches abundance
half void with chunky sediment
little bioturb black dots (sparse, 5mm)
grayish olive smooth clay (7.5Y 5/2) + few bioturb dots black (3mm)
bioturb black dots (5mm)
laminations slightly disturbed
bioturb black patches (dense)
bioturb black dots (5mm, very sparse)
SS (99cm) + light grayish olive smooth clay (2mm)

M0081D


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
30
31
32
33
31
32
33
Tr
Mc
x
7.5Y 3/2
x
2.5Y 3/2
2.5Y 5/2
2.5Y 4/2
2.5Y 5/2
2.5Y 4/2
2.5Y 5/2
2.5Y 4/2
2.5Y 5/2
2.5Y 4/2
2.5Y 5/2
7.5Y 3/2
7.5Y 4/2
core extended
fs to vfs, parallel laminations
black dots (10-15mm)
Black patches dense
SS (74cm) + Black patches dense
Smooth clay
Black patches dense
Sparsely distributed micas observed along the section + black dots (5-10mm, sparse)
grayish olive very smooth clay (5Y 5/2)
grayish olive very smooth clay (5Y 5/2)
SS (88cm) + silt mixed with small amount of vfs + core extended (100>104cm)

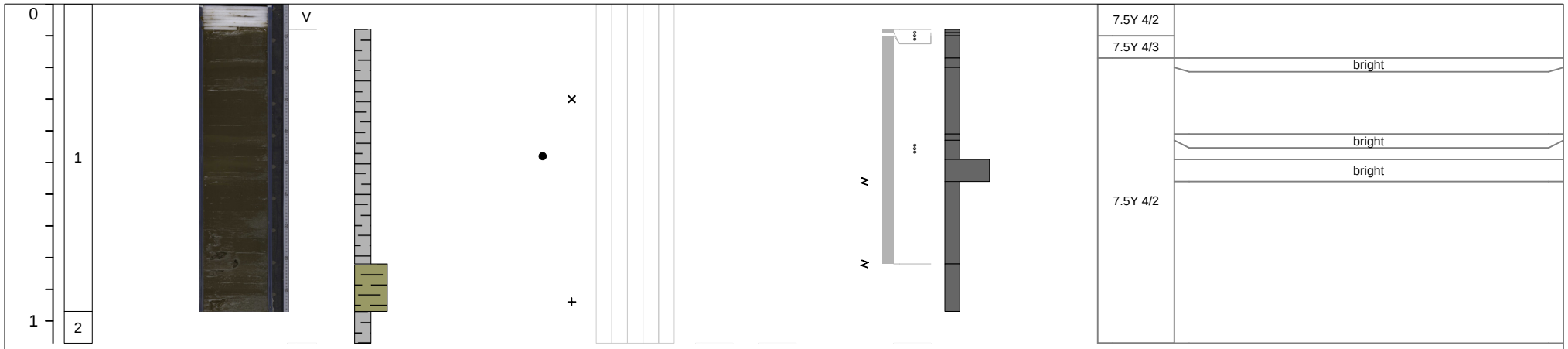
M0081D

12 of 12

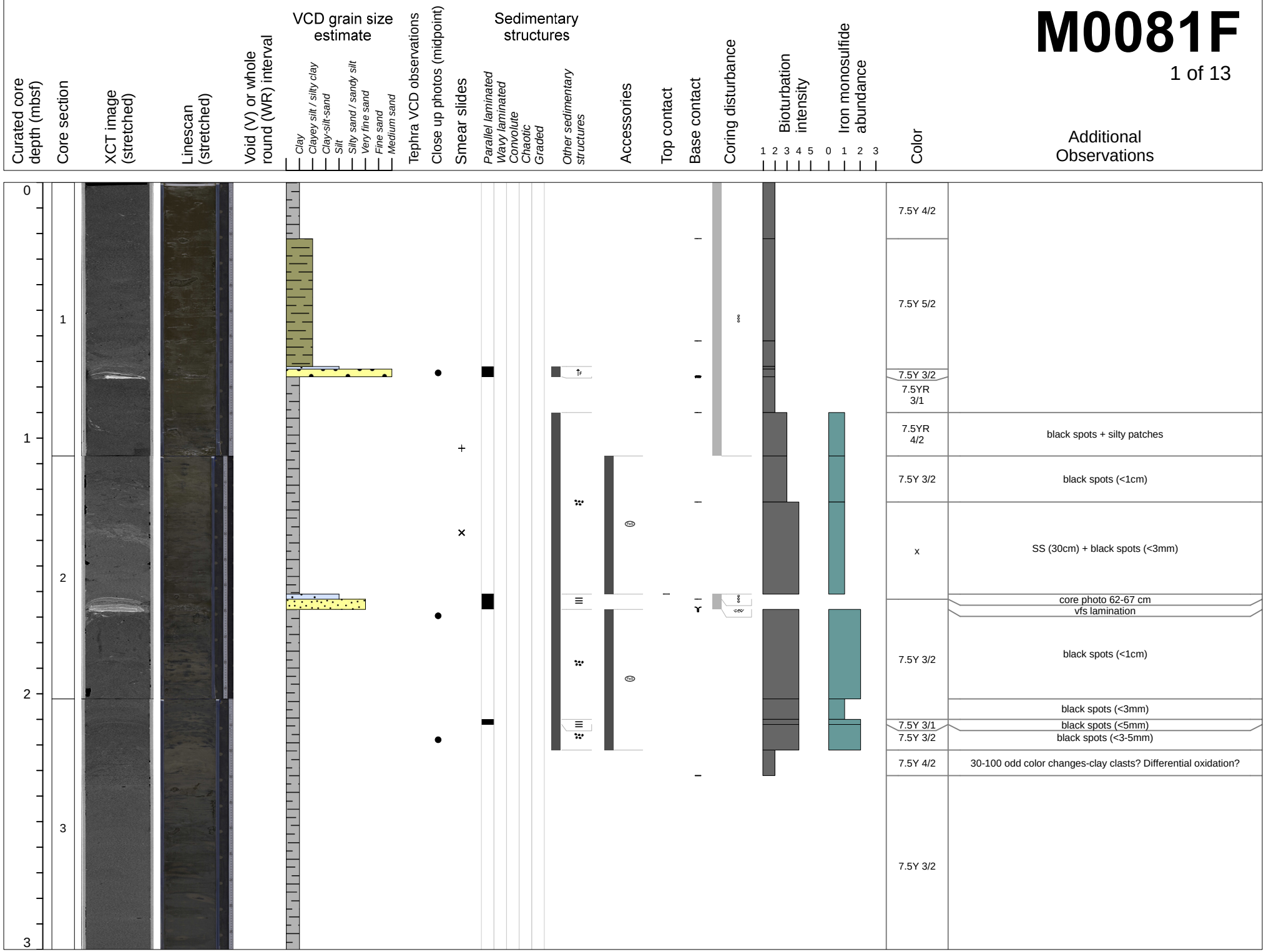


M0081E

1 of 1


Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
1
2
1
V
N
N
7.5Y 4/2
7.5Y 4/3
7.5Y 4/2
bright
bright
bright

M0081F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Linescan (stretched)
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Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
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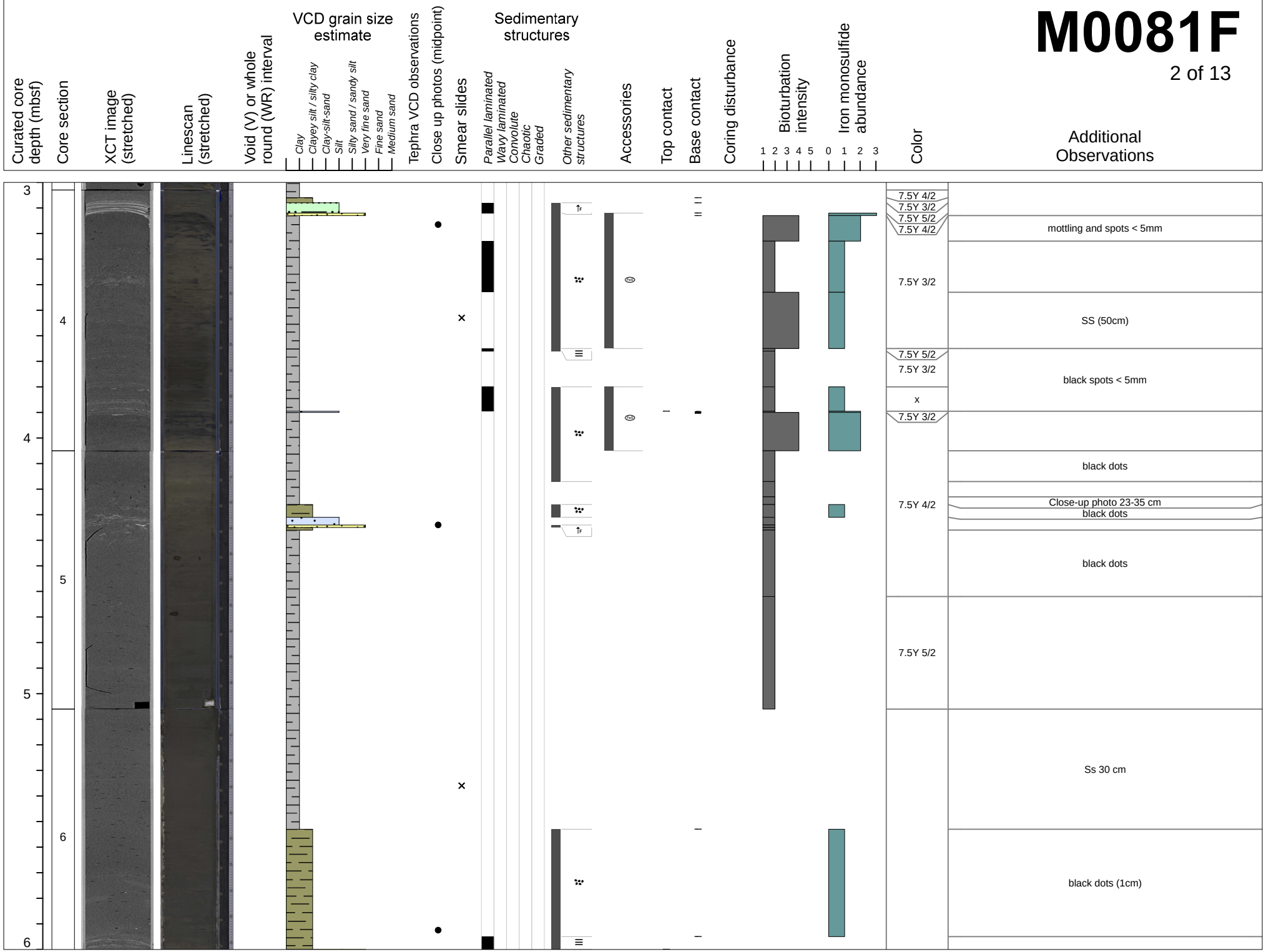
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
0
1
2
3
1
2
3
7.5Y 4/2
7.5Y 5/2
7.5Y 3/2
7.5YR 3/1
7.5YR 4/2
black spots + silty patches
7.5Y 3/2
black spots (<1cm)
x
SS (30cm) + black spots (<3mm)
core photo 62-67 cm
vfs lamination
7.5Y 3/2
black spots (<1cm)
black spots (<3mm)
7.5Y 3/1
black spots (<5mm)
7.5Y 3/2
black spots (<3-5mm)
7.5Y 4/2
30-100 odd color changes-clay clasts? Differential oxidation?
7.5Y 3/2

M0081F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Parallel laminated
Wavy laminated
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Other sedimentary structures
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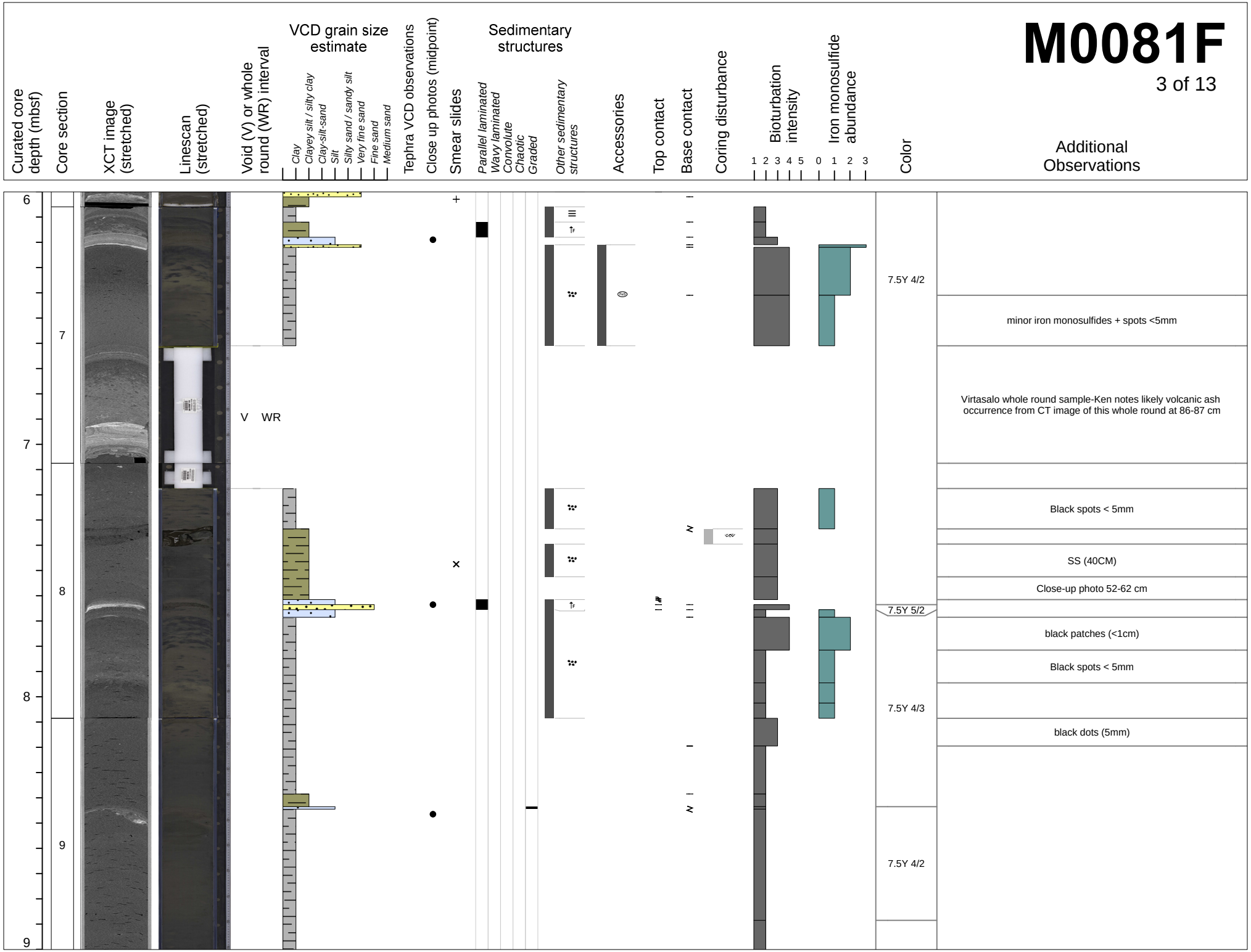
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
3
4
5
6
4
5
6
7.5Y 4/2
7.5Y 3/2
7.5Y 5/2
7.5Y 4/2
mottling and spots < 5mm
7.5Y 3/2
SS (50cm)
7.5Y 5/2
7.5Y 3/2
black spots < 5mm
x
7.5Y 3/2
black dots
7.5Y 4/2
Close-up photo 23-35 cm
black dots
black dots
7.5Y 5/2
Ss 30 cm
black dots (1cm)

M0081F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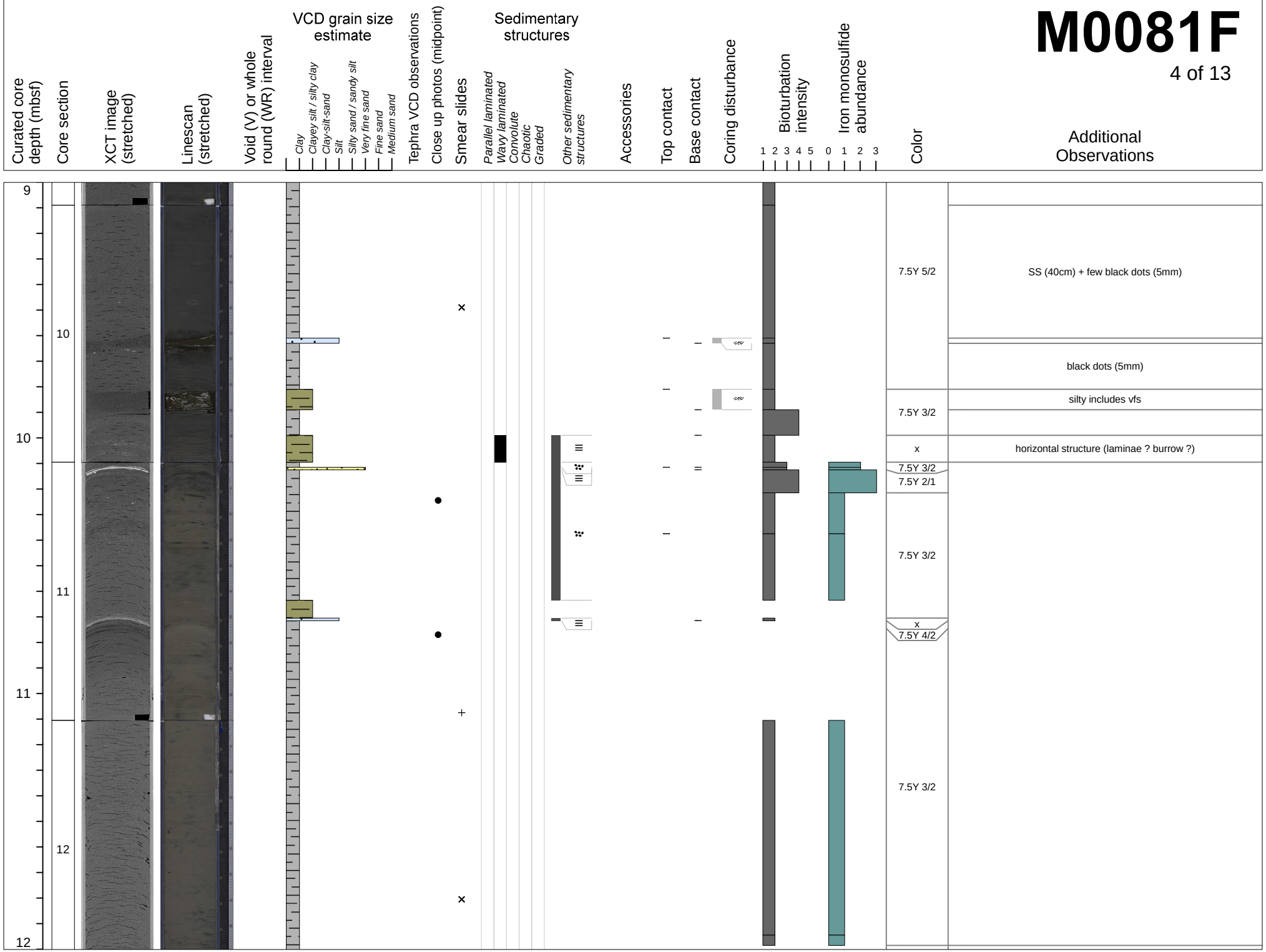
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
6
7
8
9
7
8
9
V WR
7.5Y 4/2
7.5Y 5/2
7.5Y 4/3
7.5Y 4/2
minor iron monosulfides + spots <5mm
Virtasalo whole round sample-Ken notes likely volcanic ash occurrence from CT image of this whole round at 86-87 cm
Black spots < 5mm
SS (40CM)
Close-up photo 52-62 cm
black patches (<1cm)
Black spots < 5mm
black dots (5mm)

M0081F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Accessories
Top contact
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Coring disturbance
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1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
9
10
10
11
11
12
12
7.5Y 5/2
SS (40cm) + few black dots (5mm)
black dots (5mm)
silty includes vfs
7.5Y 3/2
x
horizontal structure (laminae ? burrow ?)
7.5Y 3/2
7.5Y 2/1
7.5Y 3/2
x
7.5Y 4/2
7.5Y 3/2

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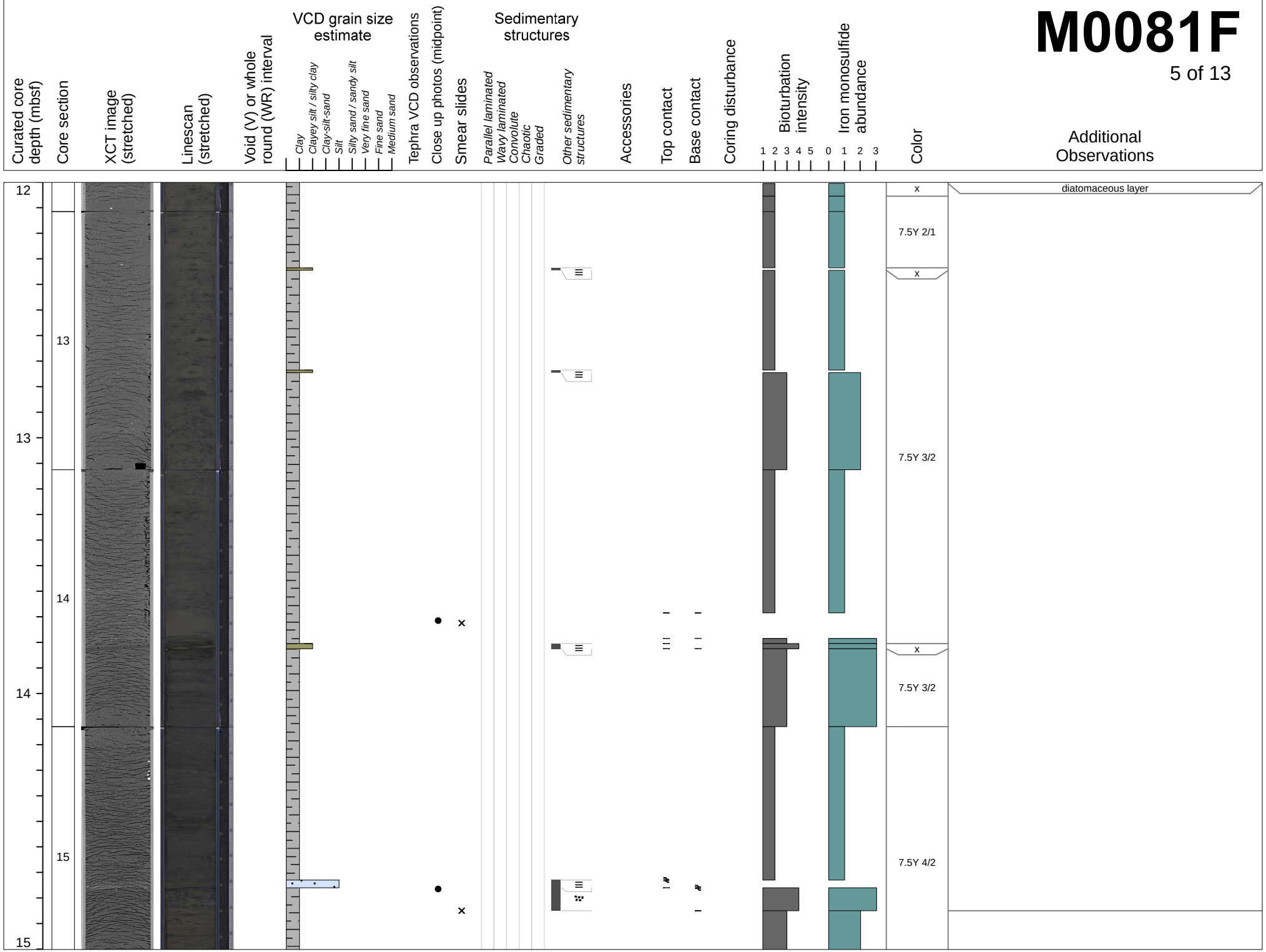
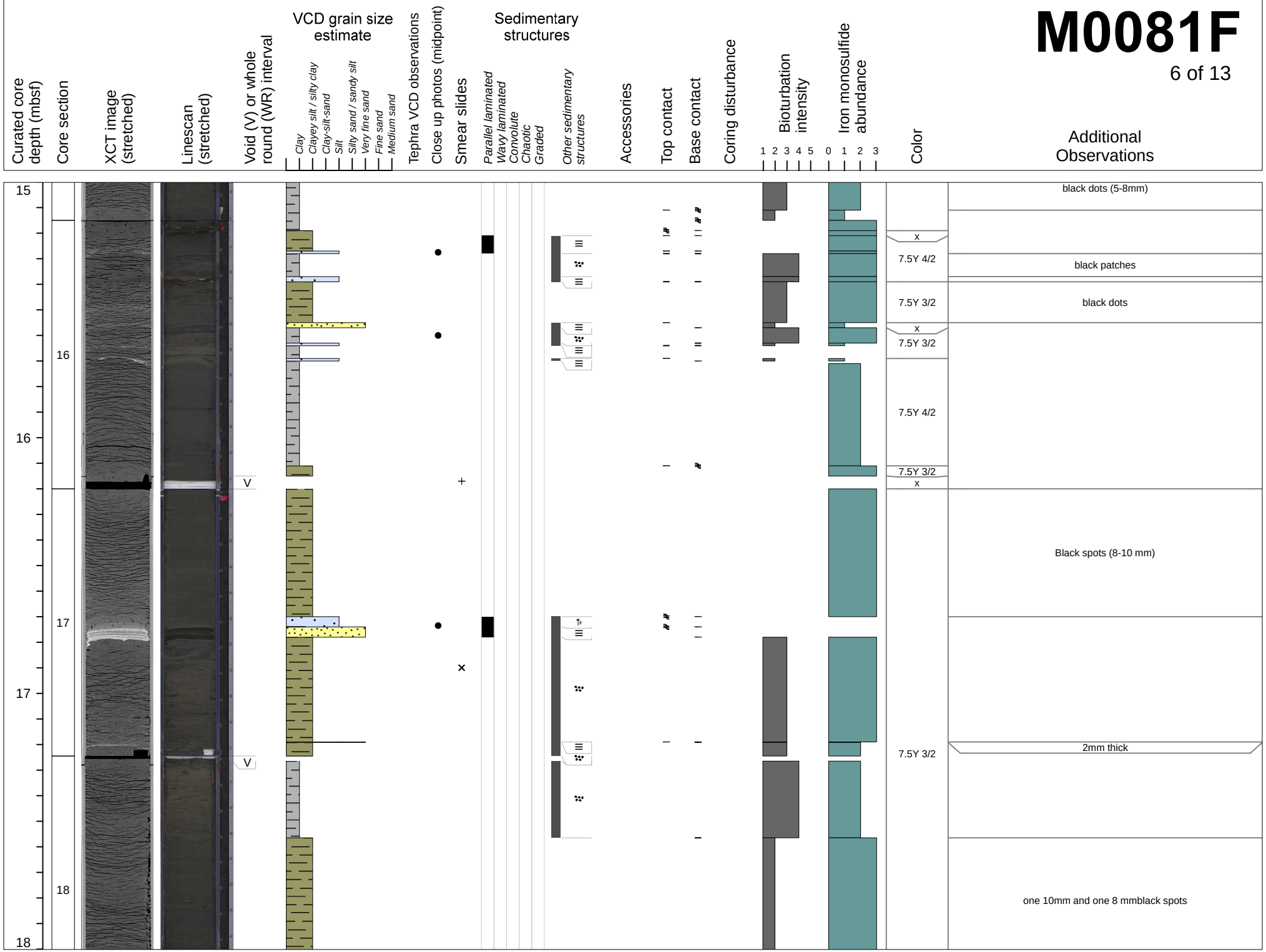

Curated core depth (mbsf)
Core section
XCT image (stretched)
Linescan (stretched)
Void (V) or whole round (WR) interval
VCD grain size estimate
Clay
Clayey silt / silty clay
Clay-silt-sand
Silt
Silty sand / sandy silt
Very fine sand
Fine sand
Medium sand
Tephra VCD observations
Close up photos (midpoint)
Smear slides
Sedimentary structures
Parallel laminated
Wavy laminated
Convolute
Chaotic
Graded
Other sedimentary structures
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
12
13
13
14
14
15
15
13
14
15
x
7.5Y 2/1
x
7.5Y 3/2
x
7.5Y 3/2
7.5Y 4/2
diatomaceous layer

M0081F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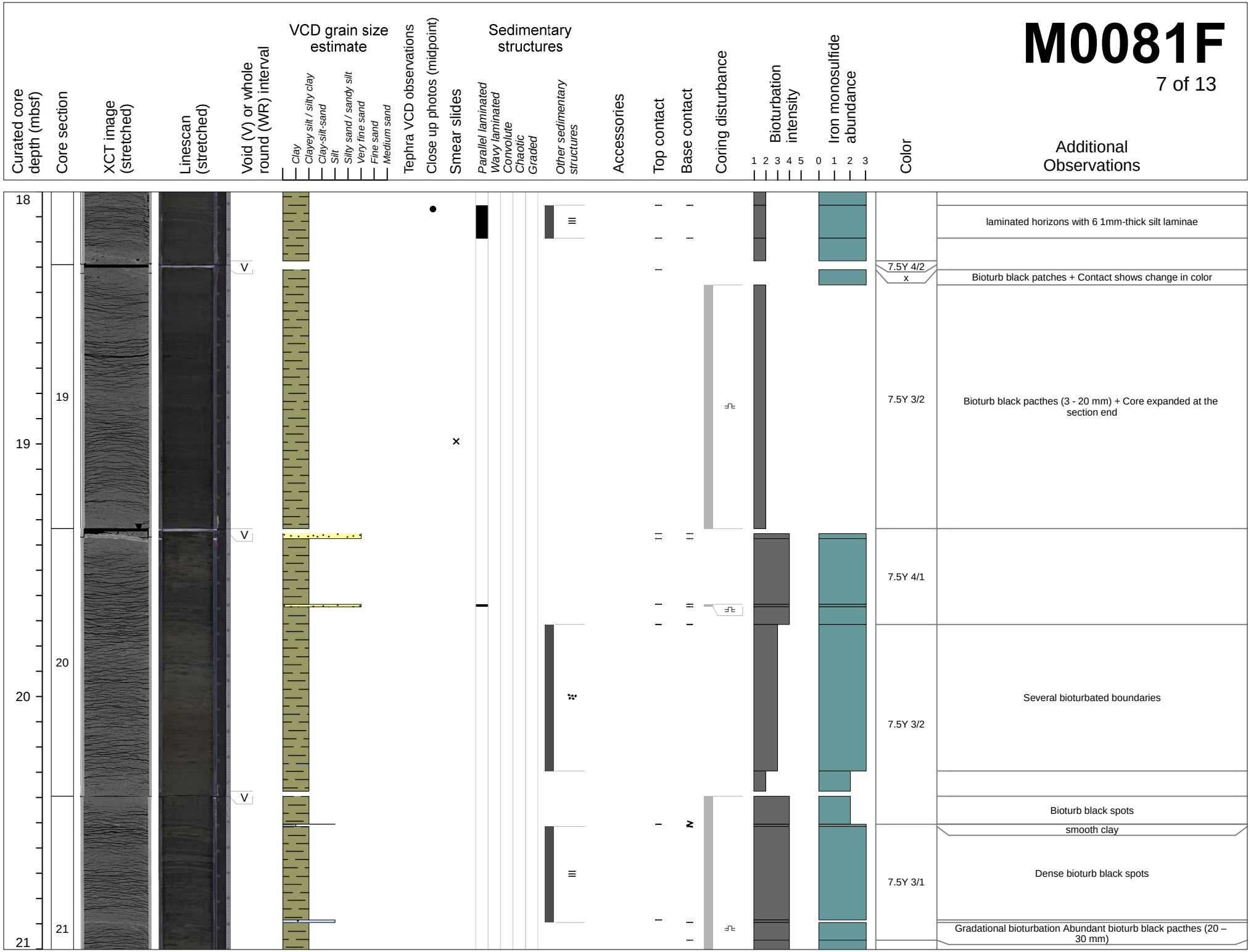
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
15
16
16
17
17
18
18
16
17
18
V
V
x
7.5Y 4/2
7.5Y 3/2
x
7.5Y 3/2
7.5Y 4/2
7.5Y 3/2
x
7.5Y 3/2
black dots (5-8mm)
black patches
black dots
Black spots (8-10 mm)
2mm thick
one 10mm and one 8 mmblack spots

M0081F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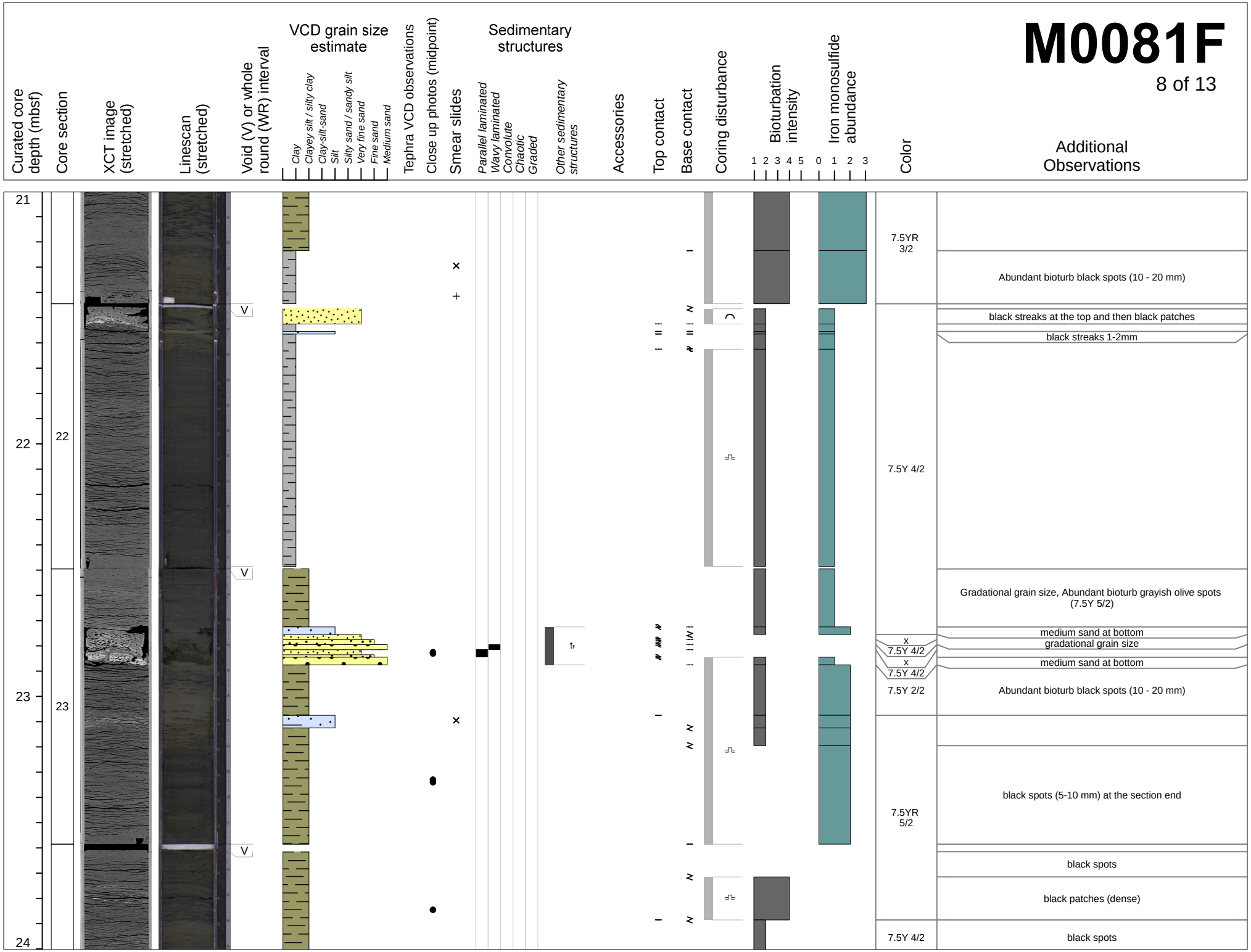
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
18
19
20
21
19
20
21
V
V
V
x
7.5Y 4/2
x
7.5Y 3/2
7.5Y 4/1
7.5Y 3/2
7.5Y 3/1
laminated horizons with 6 1mm-thick silt laminae
Bioturb black patches + Contact shows change in color
Bioturb black pacthes (3 - 20 mm) + Core expanded at the section end
Several bioturbated boundaries
Bioturb black spots
smooth clay
Dense bioturb black spots
Gradational bioturbation Abundant bioturb black pacthes (20 – 30 mm)

M0081F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Graded
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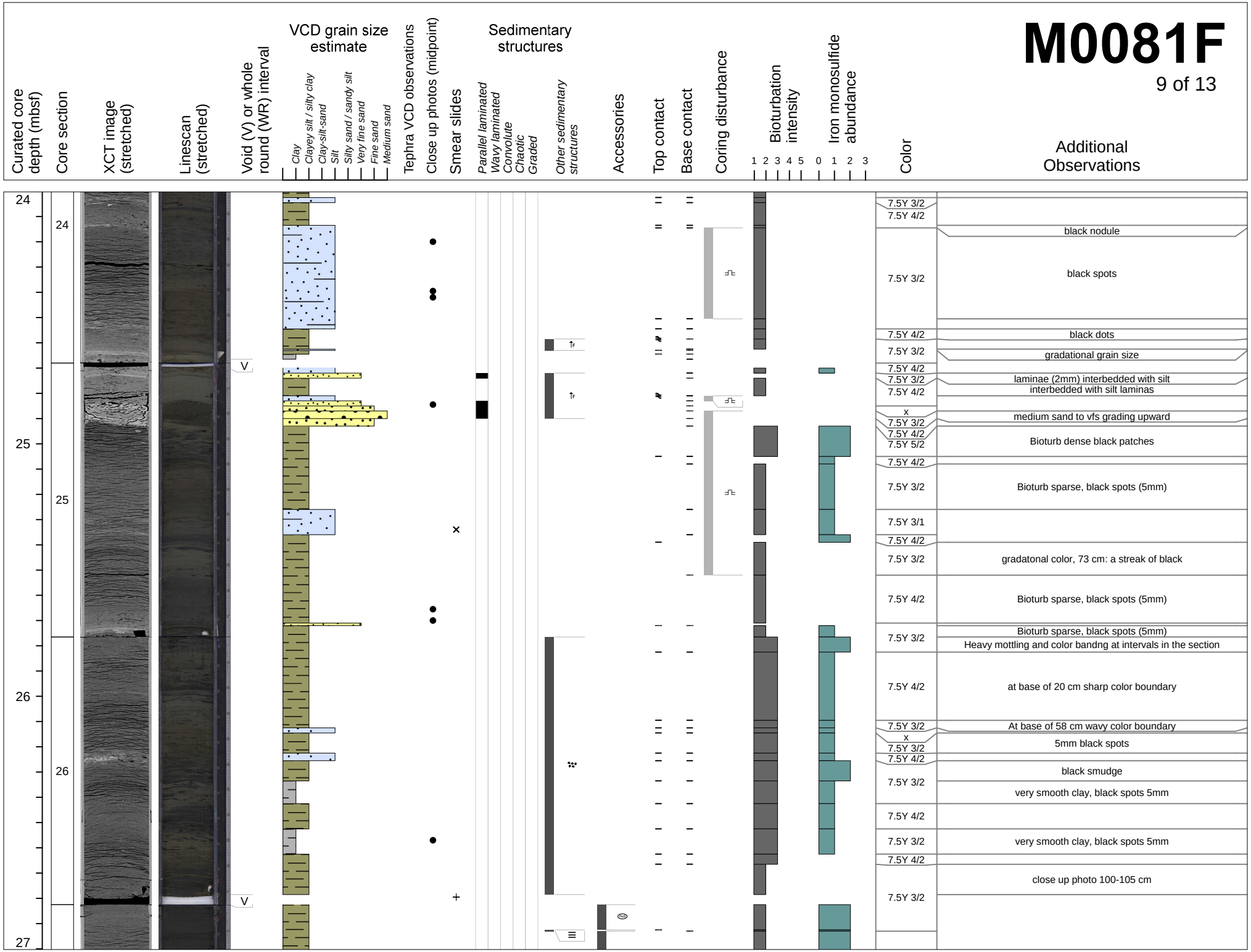
Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
21
22
23
24
22
23
V
V
V
7.5YR 3/2
Abundant bioturb black spots (10 - 20 mm)
black streaks at the top and then black patches
black streaks 1-2mm
7.5Y 4/2
Gradational grain size, Abundant bioturb grayish olive spots (7.5Y 5/2)
medium sand at bottom
gradational grain size
medium sand at bottom
x
7.5Y 4/2
x
7.5Y 4/2
7.5Y 2/2
Abundant bioturb black spots (10 - 20 mm)
black spots (5-10 mm) at the section end
7.5YR 5/2
black spots
black patches (dense)
7.5Y 4/2
black spots

M0081F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Fine sand
Medium sand
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Accessories
Top contact
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
24
25
26
27
V
7.5Y 3/2
7.5Y 4/2
black nodule
black spots
black dots
gradational grain size
laminae (2mm) interbedded with silt
interbedded with silt laminas
medium sand to vfs grading upward
7.5Y 5/2
Bioturb dense black patches
Bioturb sparse, black spots (5mm)
7.5Y 3/1
gradatonal color, 73 cm: a streak of black
Bioturb sparse, black spots (5mm)
Heavy mottling and color bandng at intervals in the section
at base of 20 cm sharp color boundary
At base of 58 cm wavy color boundary
5mm black spots
black smudge
very smooth clay, black spots 5mm
close up photo 100-105 cm

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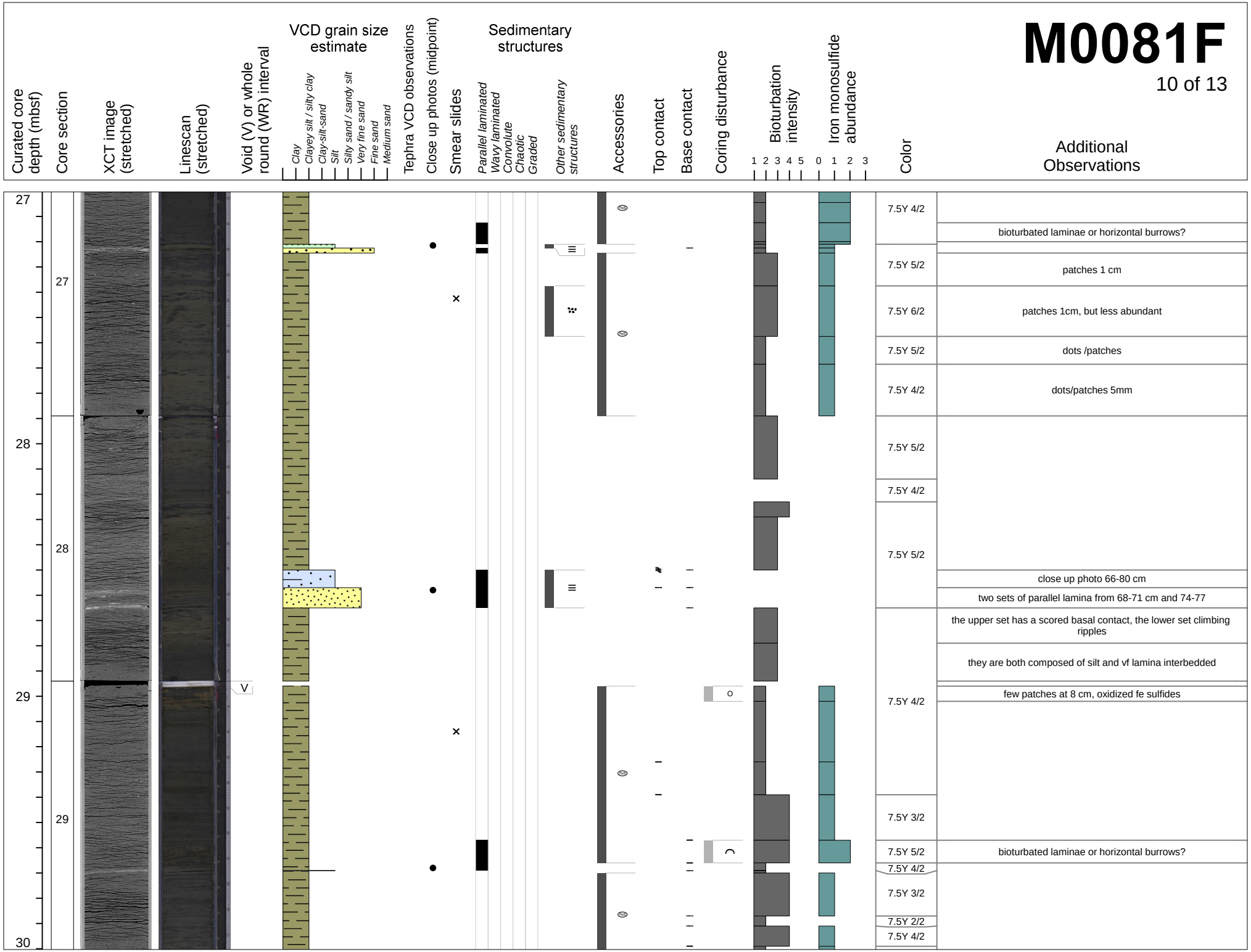
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1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
27
28
29
30
V
7.5Y 4/2
bioturbated laminae or horizontal burrows?
7.5Y 5/2
patches 1 cm
7.5Y 6/2
patches 1cm, but less abundant
7.5Y 5/2
dots /patches
7.5Y 4/2
dots/patches 5mm
7.5Y 5/2
7.5Y 4/2
7.5Y 5/2
close up photo 66-80 cm
two sets of parallel lamina from 68-71 cm and 74-77
the upper set has a scored basal contact, the lower set climbing ripples
they are both composed of silt and vf lamina interbedded
few patches at 8 cm, oxidized fe sulfides
7.5Y 4/2
7.5Y 3/2
7.5Y 5/2
bioturbated laminae or horizontal burrows?
7.5Y 4/2
7.5Y 3/2
7.5Y 2/2
7.5Y 4/2

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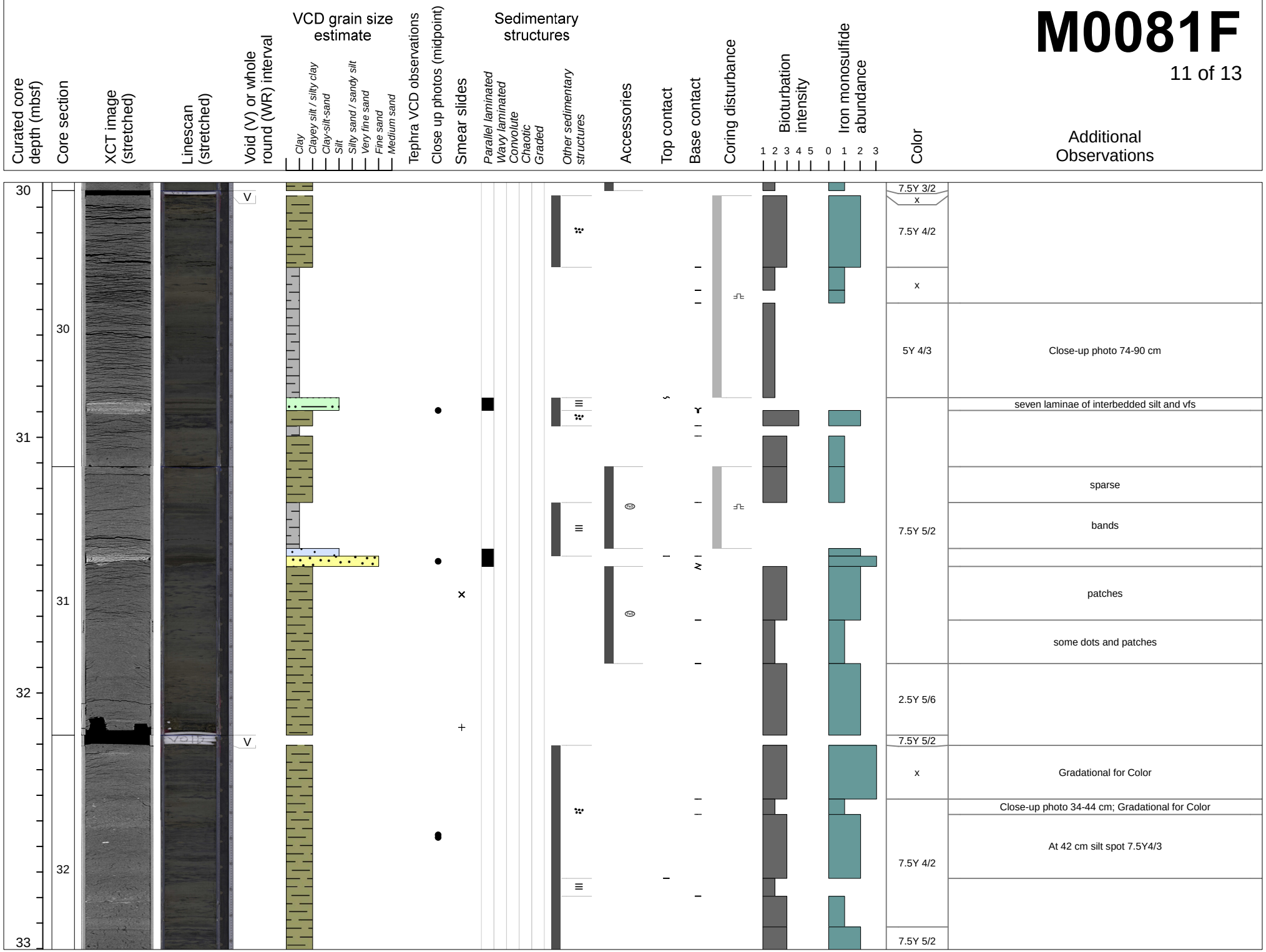
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Accessories
Top contact
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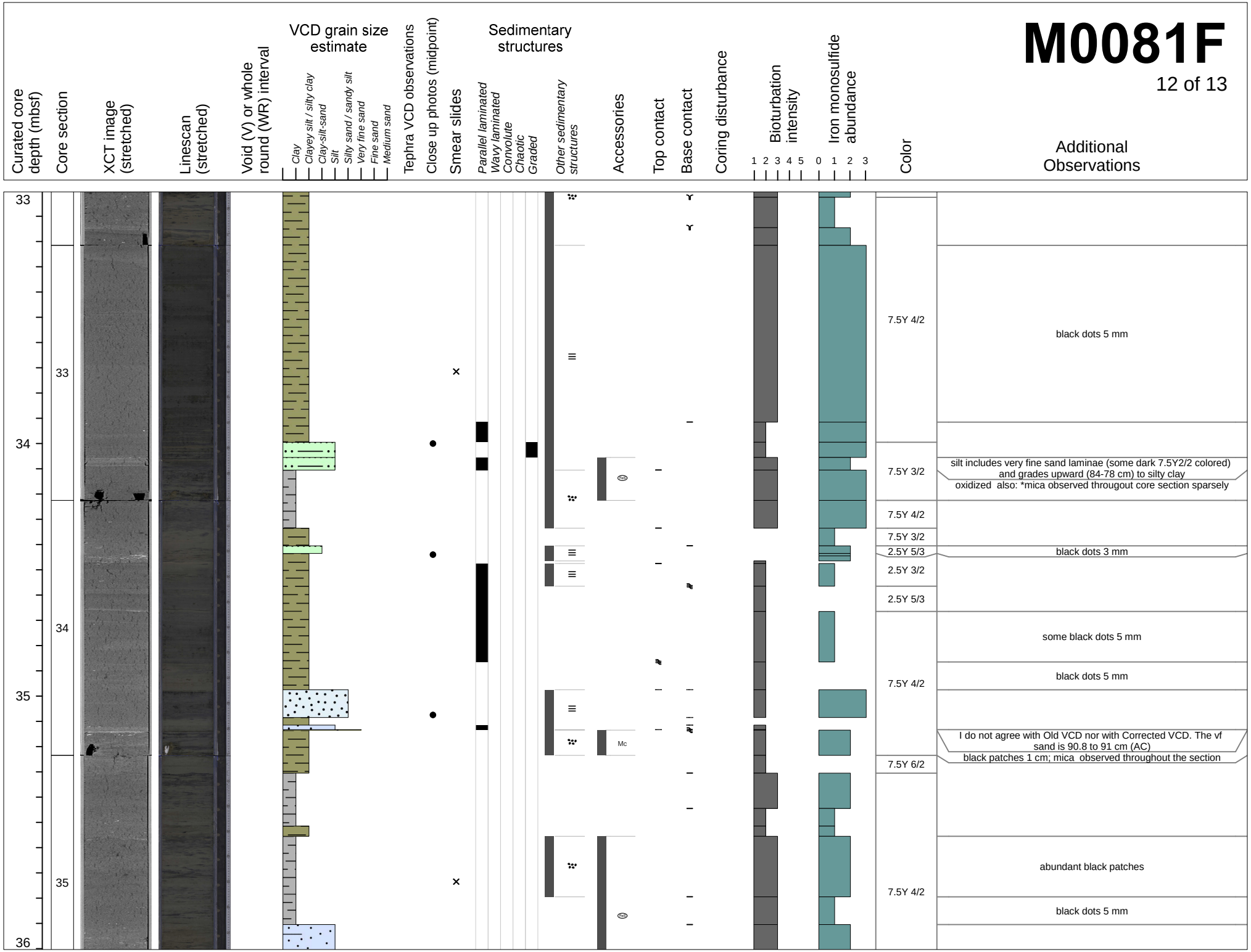
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
30
31
32
33
V
7.5Y 3/2
x
7.5Y 4/2
x
5Y 4/3
Close-up photo 74-90 cm
seven laminae of interbedded silt and vfs
sparse
bands
7.5Y 5/2
patches
some dots and patches
2.5Y 5/6
7.5Y 5/2
x
Gradational for Color
Close-up photo 34-44 cm; Gradational for Color
At 42 cm silt spot 7.5Y4/3
7.5Y 4/2
7.5Y 5/2

M0081F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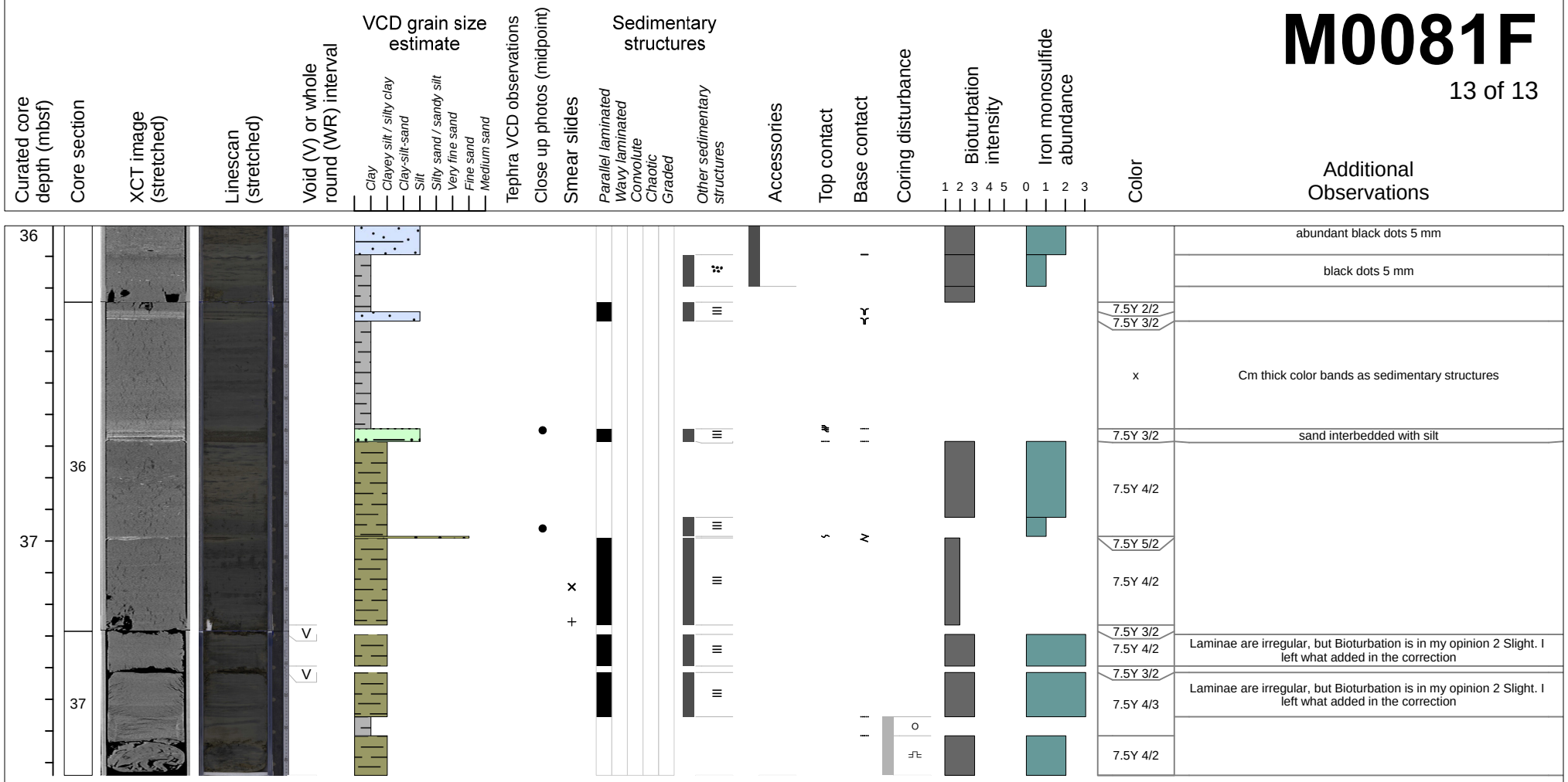
Base contact
Coring disturbance
Bioturbation intensity
1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
33
34
35
36
33
34
35
Mc
7.5Y 4/2
7.5Y 3/2
7.5Y 4/2
7.5Y 3/2
2.5Y 5/3
2.5Y 3/2
2.5Y 5/3
7.5Y 4/2
7.5Y 6/2
7.5Y 4/2
black dots 5 mm
silt includes very fine sand laminae (some dark 7.5Y2/2 colored) and grades upward (84-78 cm) to silty clay
oxidized also: *mica observed througout core section sparsely
black dots 3 mm
some black dots 5 mm
black dots 5 mm
I do not agree with Old VCD nor with Corrected VCD. The vf sand is 90.8 to 91 cm (AC)
black patches 1 cm; mica observed throughout the section
abundant black patches
black dots 5 mm

M0081F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1 2 3 4 5
Iron monosulfide abundance
0 1 2 3
Color
Additional Observations
36
37
36
37
V
V
7.5Y 2/2
7.5Y 3/2
x
7.5Y 3/2
7.5Y 4/2
7.5Y 5/2
7.5Y 4/2
7.5Y 3/2
7.5Y 4/2
7.5Y 3/2
7.5Y 4/3
7.5Y 4/2
abundant black dots 5 mm
black dots 5 mm
Cm thick color bands as sedimentary structures
sand interbedded with silt
Laminae are irregular, but Bioturbation is in my opinion 2 Slight. I left what added in the correction
Laminae are irregular, but Bioturbation is in my opinion 2 Slight. I left what added in the correction